PROMETHEAN

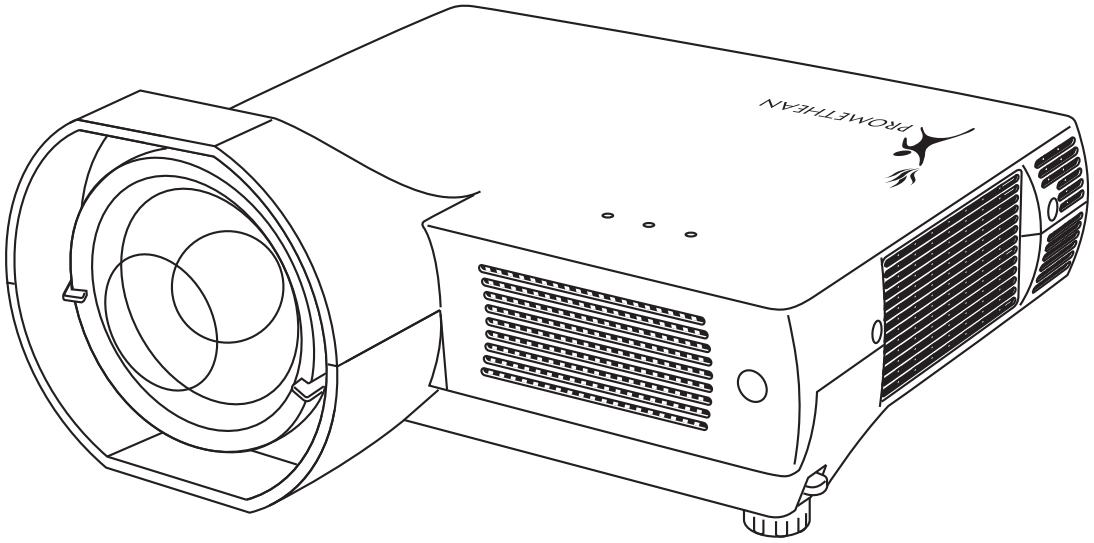
FILE NO.

SERVICE MANUAL

Multimedia Projector

Model No. PRM-20
PRM-20(S)
U.S.A. Canada
Europe, U.K

Original Version



Chassis No. KM5-2000
KM5-20(S)00

Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.
If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

PRODUCT CODE
1 122 483 18 (KM5YC)
1 122 483 19 (KM5ZC)

REFERENCE NO. SM5111026-00

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Safety Instructions

SAFETY PRECAUTIONS

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⎓) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT T HE PROTECTIVE SHIELD IN POSITION AND PROP ERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Battery Replacement Notice

Caution

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacture's instructions.

Replace Battery With SANYO Electric Co., Ltd., Part No. 945 088 6837 Only. Use of Another Battery May Present A Risk Of Fire or Explosion.

Specifications

Mechanical Information	
Projector Type	Multi-media Projector
Dimensions (W x H x D)	12.59" x 5.73" x 11.85" (319.9 mm x 145.5 x 300.9 mm) (Not including protrusions)
Net Weight	7.5 lbs (3.4 kg)
Feet Adjustment	0˚ to 10.0˚
Panel Resolution	
LCD Panel System	0.59" TFT Active Matrix type, 3 panels
Panel Resolution	1,280 x 800 dots
Number of Pixels	3,072,000 (1,280 x 800 x 3 panels)
Signal Compatibility	
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15–100 kHz, V-sync. 50–100 Hz
Optical Information	
Projection Image Size (Diagonal)	Adjustable from 50" to 110"
Projection Lens	F 1.8 lens with f 6.6 mm with manual focus
Throw Distance	1.77' - 3.94' (0.53 m - 1.20 m)
Projection Lamp	200 W
Interface	
Video Input Jack	RCA Type x 1
S-Video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer Input 1 / Component Input Terminal	Analog RGB (Mini D-sub 15 pin) Terminal x 1
Computer Input 2 / Monitor Output Terminal	Analog RGB (Mini D-sub 15 pin) Terminal x 1 (In/Out switchable)
Computer/ Component Audio Input Jack	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
LAN Connection Terminal	100 Base-TX (100Mbps)/10Base-T (10Mbps), RJ45
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)
Audio	
Internal Audio Amp	1.0 W RMS
Built-in Speaker	1 speaker, ø1.1" (28 mm)
Power	
Voltage and Power Consumption	AC 100–120 V (3.2 A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 200–240 V (1.6 A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)
Operating Environment	
Operating Temperature	41˚F–95˚F (5˚C–35˚C)
Storage Temperature	14˚F–140˚F (-10˚C–60˚C)
Remote Control	
Battery	AA or LR6 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5 m)/±30˚
Dimensions	1.9" (W) x 0.87" (H) x 5.7" (D) (49 mm x 22 mm x 145.3 mm)
Net Weight	3.53 oz (100 g) (including batteries)
Antitheft Alarm	
Battery	CR2 3V LITHIUM BATTERY x 1

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

c UL US LISTED

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. Safety standards against risk of fire, casualty and electrical hazards.

Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

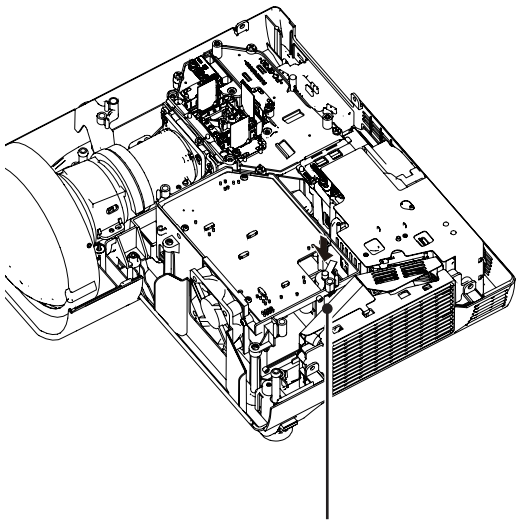
Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 105˚C, the thermal switch opens to stop the operation of the power supply circuit.
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.

How to reset the thermal switch

1. Remove the cabinet top, cabinet front and main board and then remove the power box top cover.
2. Press the reset button on the thermal switch in the power box.

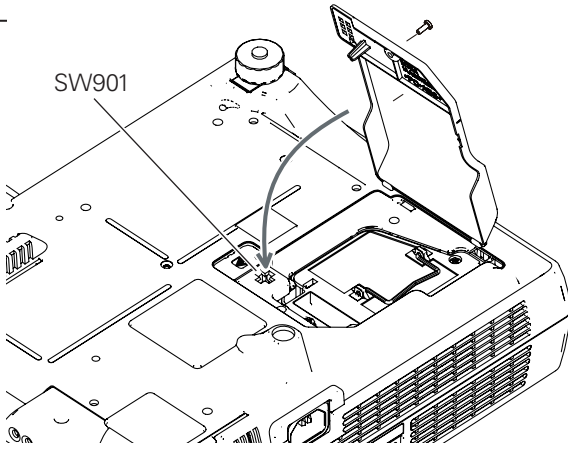
CAUTION:
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.



Thermal switch (SW902)

Lamp cover switch

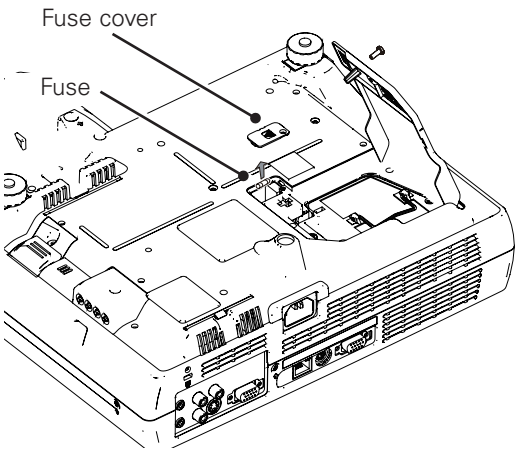
The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



Fuse

A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.
The fuse should be used with the following type;

Fuse Part No.: 323 021 7804
TYPE T6.3AH 250V FUSE
LITTLE FUSE INC. TYPE 21506.3



How to replace the fuse

1. Remove the lamp cover and fuse cover as shown in figure.
2. Take the fuse out from the aperture, and replace the new one with the specified type.

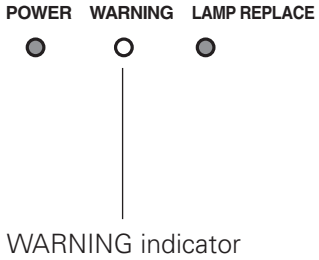
Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.
- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter "Power supply & protection circuit" in the Chassis Block Diagram section.

Possible causes

- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the "Air filter care and cleaning" below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 ˚C or 41 to 95˚F)

Top Panel

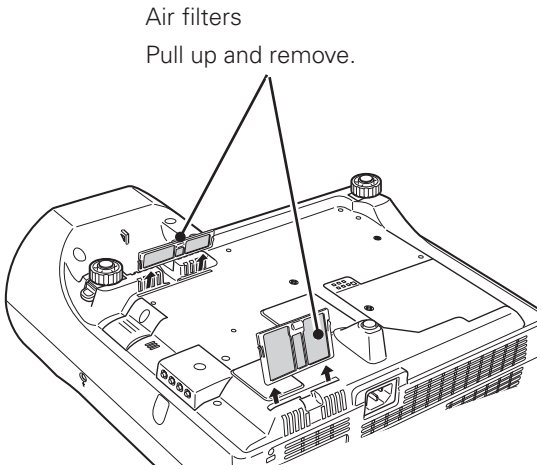


Maintenance

Air filter care and cleaning

Air filters prevent dust from accumulating on the optical elements inside the projector. Should the air filters become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the air filters following the steps below.

1. Turn off the projector, and disconnect the AC power cord from the AC outlet.
2. Turn over the projector and remove the air filters by pulling the latches upward.
3. Clean the air filters with a brush or rinse them softly.
4. When cleaning the air filters by rinsing, dry them well. Replace the air filters properly. Make sure that the air filters are fully inserted.



CAUTION:
Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality.
Do not put small parts into the air intake vents. It may result in malfunction of the projector.

RECOMMENDATION:
We recommend avoiding dusty/smoky environments when operating the projector. Usage in these environments may cause poor image quality.
When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector. This condition may degrade the quality of a projected image.
When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Resetting the Filter Counter

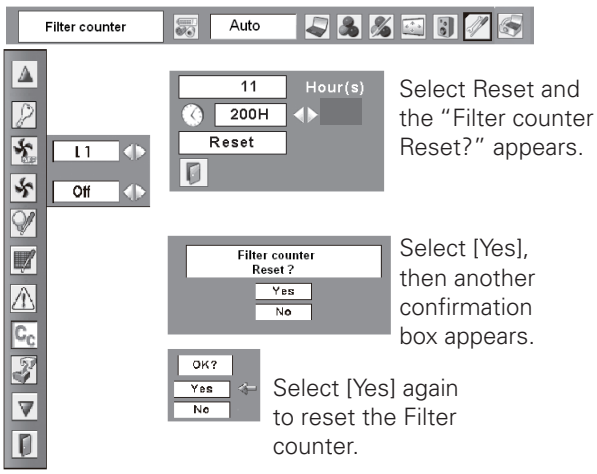
Be sure to reset the Filter counter after cleaning or replacing the filters.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Setting Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to Filter counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the filter use, a timer setting option, and the reset option. Select Reset and the "Filter counter Reset?" appears. Select [Yes] to continue.

3 Another confirmation dialog box appears, select [Yes] to reset the Filter counter.

Filter counter



After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to" Mechanical Disassemblies".
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:
Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to " Mechanical Disassemblies".
2. Remove the optical base top following to "Optical Unit Disassemblies". If the LCD panel needs cleaning, remove the LCD panel unit following to " LCD panel replacement".
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

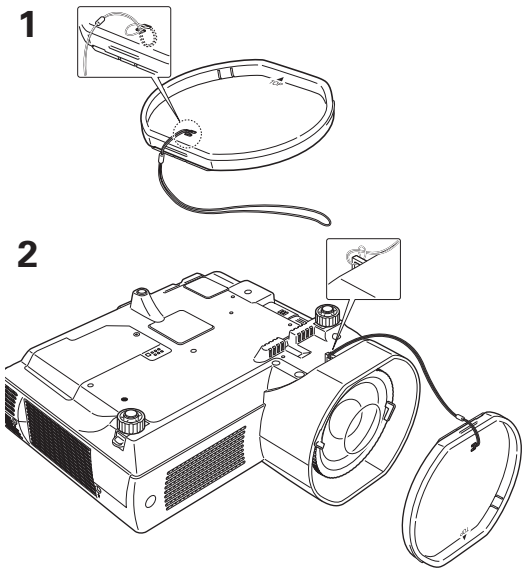
Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

Attaching the Lens Cover

When moving the projector or while it is not in use, replace the lens cover.

1 Thread the string through the hole on the lens cover and then tie a knot in the string to secure it in place.

2 Thread the other end of the string through the hole on the bottom of the projector. Then pass the lens cover through the resulting loop of the string and pull it to tighten the knot.



Cleaning the Projection Lens

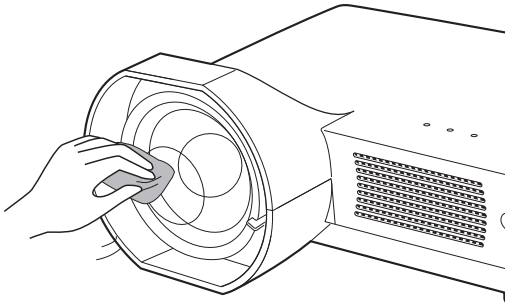
CAUTION

This projector is equipped with a plastic lens.
Do not rub the lens with a hard fiber cloth or hit it with something hard to prevent the lens from scratching.
Do not use a chemical cleaner (liquid and solid) to avoid deteriorating the lens.

Unplug the AC power cord before cleaning.

First, remove the dust with a blower. Then gently wipe the lens surface. Use a lens cleaning paper moistened with methyl alcohol (methanol). Avoid excessive use of cleaner. Do not use abrasive cleaners, solvents, or other harsh chemical cleaners to avoid damages the lens.

When the projector is not in use, replace the lens cover.

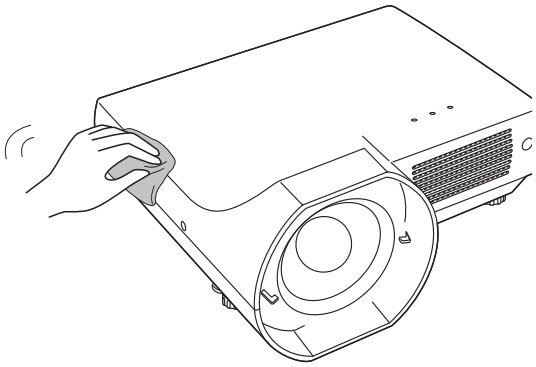


Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When it is heavily soiled, use a small amount of mild detergent and finish with the cleaning cloth. Avoid excessive use of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate case to avoid dust and being scratched.



Lamp Replacement

Lamp Replacement

When the projection lamp of the projector reaches the end of its life, the LAMP REPLACE indicator emits a yellow light. If this indicator lights yellow, replace the lamp with a new one promptly.

WARNING:
TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER.
USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

Top Panel

This indicator turns yellow when the projection lamp reaches the end of its life.

Lamp replacement icon

✔Note:
The Lamp replacement icon will not appear when the Display function is set to "Off", during "Freeze" or "No show".

CAUTION

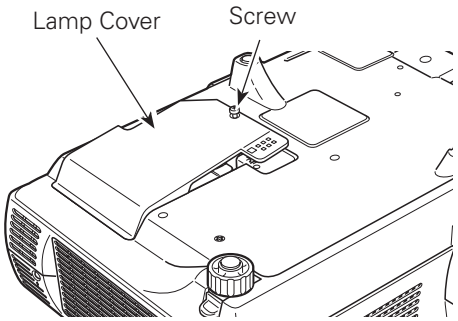
Allow the projector to cool for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.

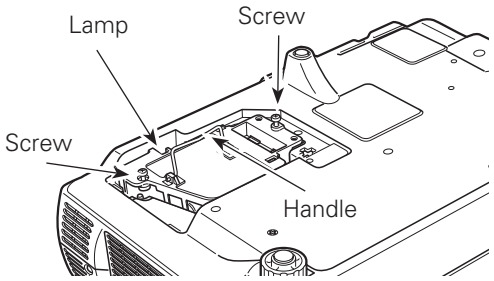
CAUTION

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

1. Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
2. Turn the projector over. Remove the screw that secures the lamp cover, and then open the lamp cover.
3. Remove the two screws that secure the lamp. Lift the lamp out of the projector by using the built in handle.
4. Replace the lamp with a new one and secure it with the two screws. Make sure that the lamp is set properly. Put the lamp cover back and secure it with the screw.
5. Connect the AC power cord to the projector and turn on the projector.
6. **Reset the lamp replacement counter.**
   See "Lamp Replacement Counter" on the next page.





ORDER REPLACEMENT LAMP

Replacement lamp can be ordered through your dealer. When ordering a projection lamp, give the following information to the dealer.

- **Model No. of your projector : PRM-20/PRM-20(S)**
- **Replacement Lamp Type No. : POA-LMP126**
  (Service Parts No. 610 340 8569)

Lamp Replacement Counter

Be sure to reset the Lamp replacement counter after the lamp is replaced. When the Lamp replacement counter is reset, the LAMP REPLACE indicator stops lighting.

1 Turn the projector on and press the MENU button to display the On-Screen Menu. Use the Point buttons to move the red frame pointer to the Setting Menu icon.

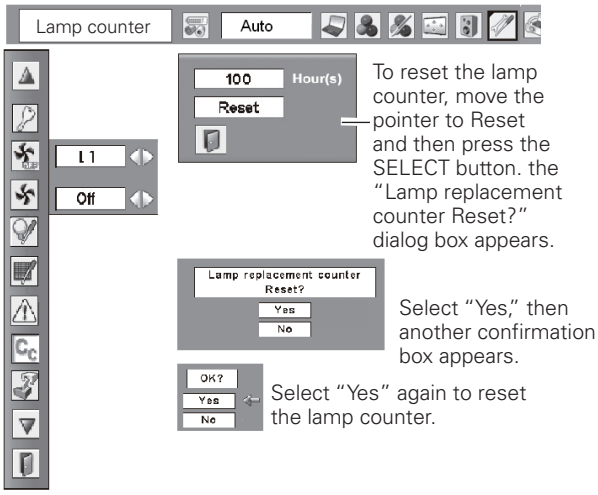
2 Use the Point buttons to move the red frame pointer to Lamp counter and then press the SELECT button. The first dialog box appears showing the total accumulated lamp time and reset option. If you select Reset, "Lamp replacement counter Reset?" appears. Select "Yes" to continue.

3 Another confirmation dialog box appears, and select "Yes" to reset the Lamp replacement counter.

✔Note:

Do not reset the Lamp replacement counter without implementing lamp replacement. Be sure to reset the Lamp replacement counter only after replacing the lamp.

Lamp counter



How to check Lamp used time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3000 hours. This is to indicate that lamp replacement is required.

The total lamp used time (Corresponding value) is calculated by using the below expression,

Total lamp used time = **T**normal + **T**high x 2

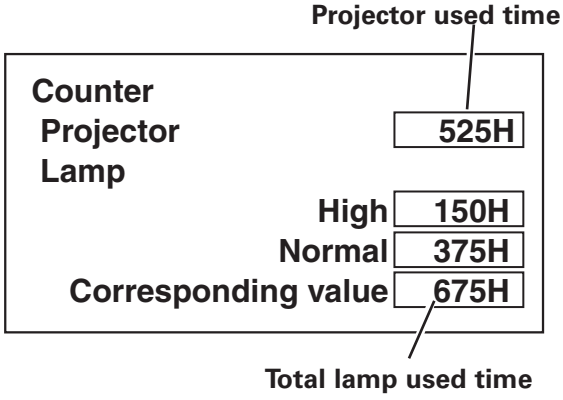
Tnormal : used time in the Normal mode

Thigh : used time in the High and Auto mode

You can check the lamp used time following to the below procedure.

1 Press and hold the **ON-OFF** button on the remote control for more than 20 seconds.

2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



Security Function Notice

Security Function Disable

This projector provides security functions such as "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
PIN code lock	Prevents the projector from being operated by an unauthorized person. Initial code: "1234"
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo and captured image on the screen. Initial code: "4321"

Resetting procedure

1 Turn the projector off (in the standby mode).
2 Press and hold the ◀ and ▶ **button** on the remote control at the same time for more than 10 seconds. The PIN code and Logo PIN code will be reset to the factory initial setting code.

Please refer to the owner's manual for further information of the security functions.

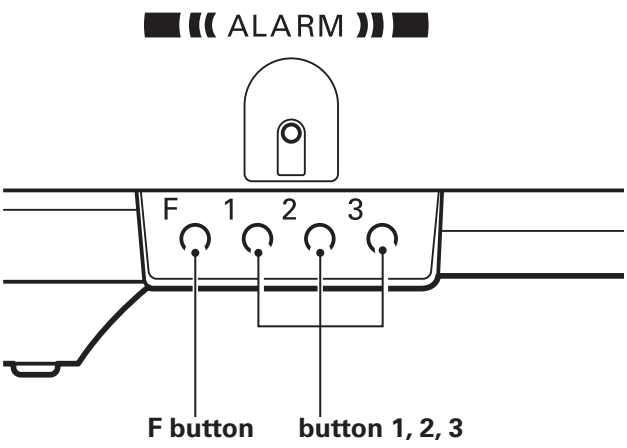
Antitheft Alarm Function Disable

This projector provides an Antitheft alarm function which works when detecting a vibration to protect the projector from a suspicious person.

Release the alarm setting
Press the **F button** and input the four-digit PIN code within 10 seconds. (default PIN code "1111") When the alarm is released, you will hear high-pitched confirmation sound.
When inputting an incorrect PIN code, you will hear low-pitched sound. If you input incorrect PIN codes 3 times, the alarm will start ringing.

If you forget the PIN code to release the alarm setting, press and hold the **button 3** and **F button** at the same time for more than 3 seconds.

Side Control



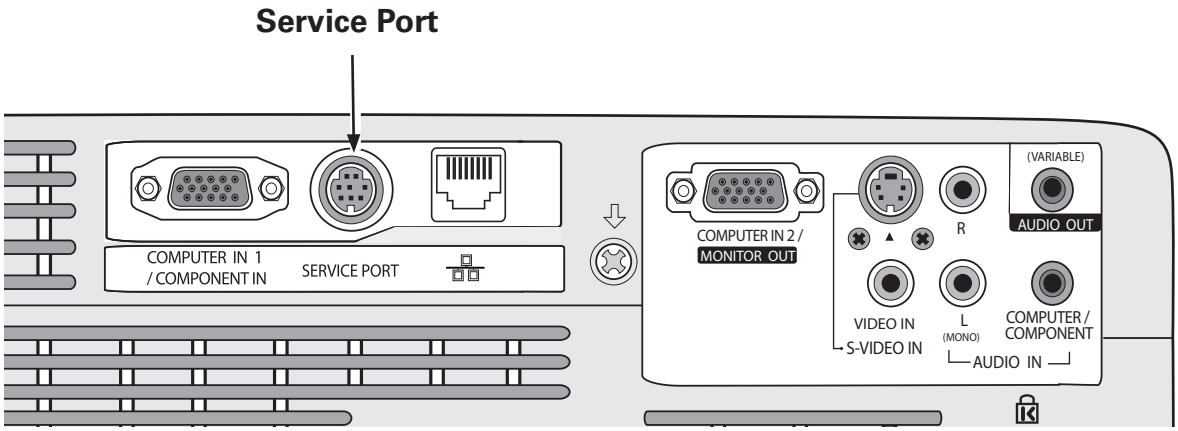
Service Port

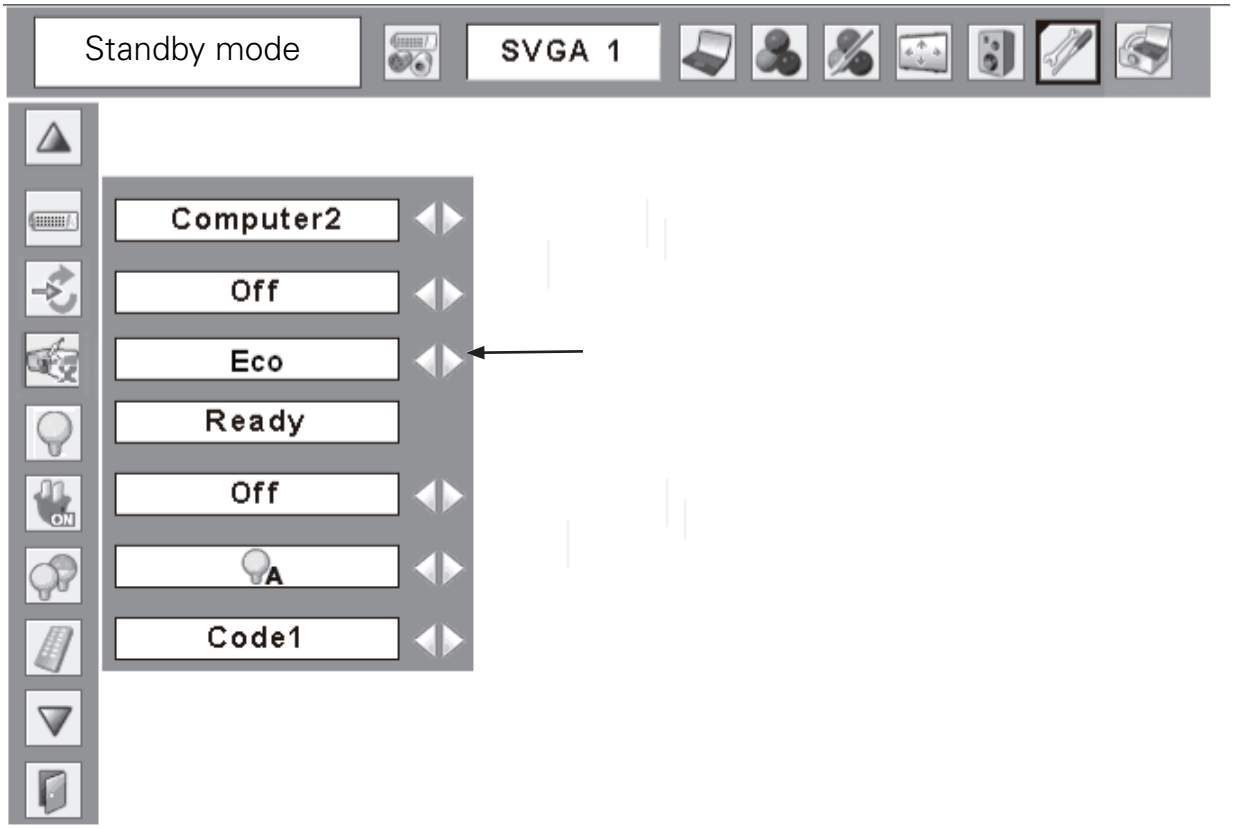
Switch of standby mode

Standby mode "Eco" : Super standby mode
Standby mode "Normal": Normal standby mode

The standby mode is factory default set "Eco".
In standby state, when you use the projector via network, the item of the standby mode in the setting menu must be set to "Normal".

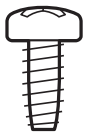
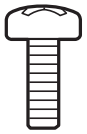
Change to “Eco” when you do not use the projector via network.
(Power consumption when standing by increases in the state of "Normal".)





Mechanical Disassembly

Mechanical disassembly should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.
Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T Type	M Type
	

1 Cabinet Top & Fans (FN901, FN902), R/C Board removal

1. Remove 7 screws A (M3x8) to remove the Cabinet top.
2. Remove screw B (T3x6) to remove the R/C board.
3. Remove screw C (T3x6) to remove the Side grille.
4. Remove screw D (T3x6) to remove the FN901 and FN902.

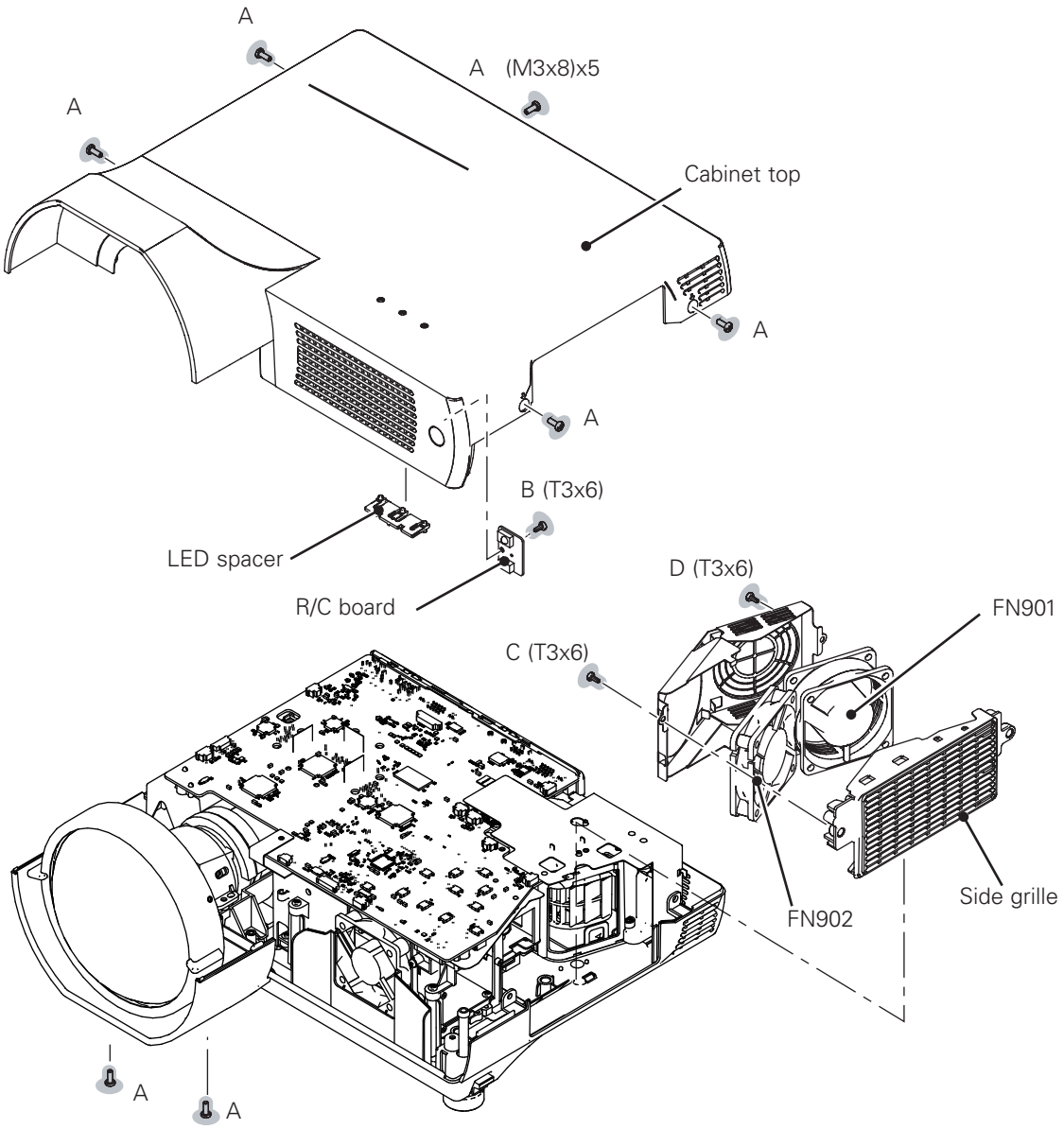


Fig.1

2 Main Board, Rear Panel, Fan (FN905), SP901 removal

1. Remove 2 screws A (M2.5x6) to remove the Lamp Spacer Sheet.
2. Remove 7 screws B (M2.5x6) and screw C (M2.5x8) to remove the Main Board and remove screw D (M4x5) to remove the Grounding lead.
3. Remove Rear Panel.
4. Remove screw E (T3x8) to remove the Lamp Mounting Duct and the FN905.
5. Remove the speaker (SP901).

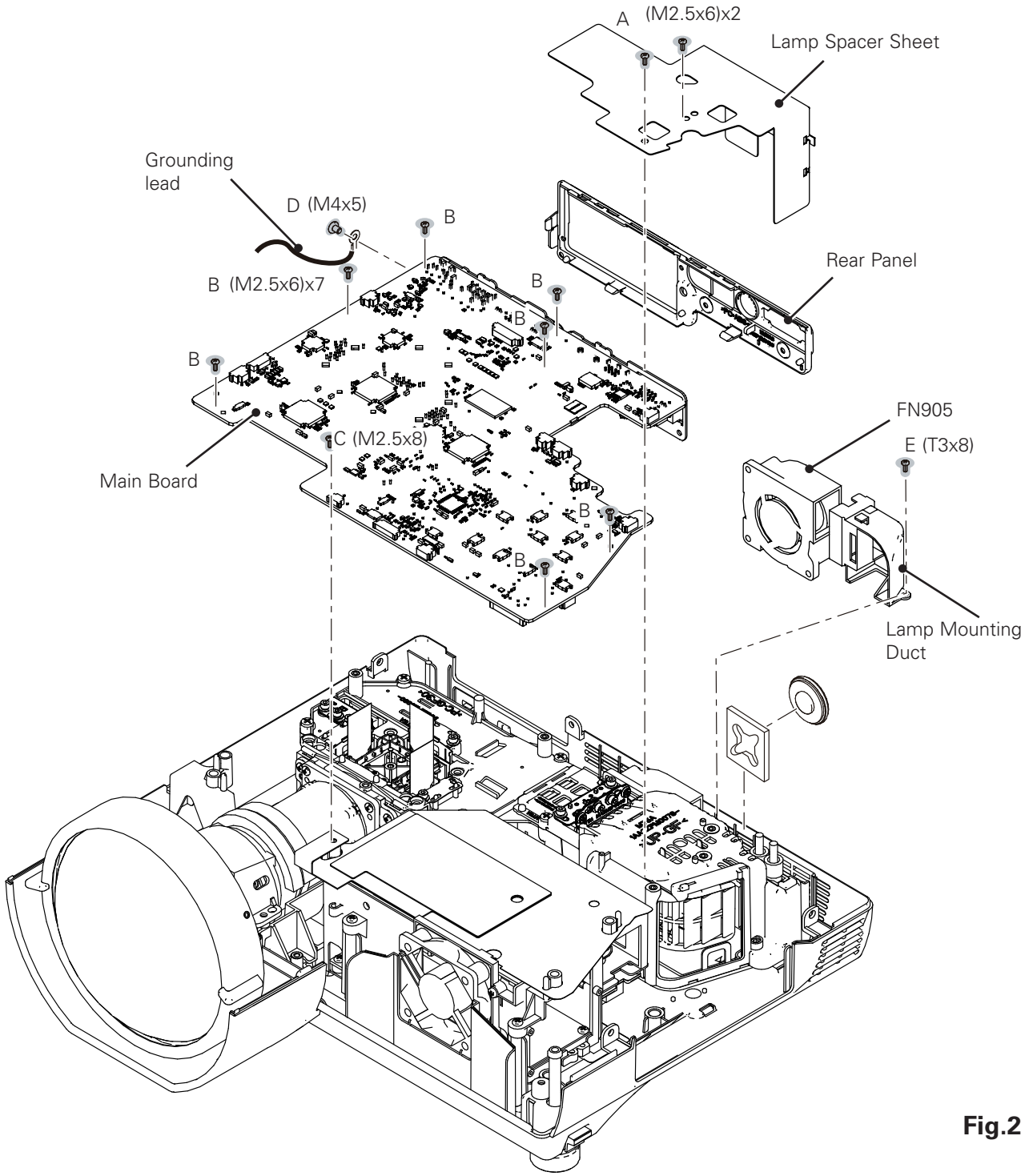


Fig.2

3 Power, Line Filter, Ballast Board, Thermal Switch (SW902), Fan (FN906) removal

1. Remove the Isolation sheet Ass'y.
2. Remove 4 screws A (T3x6) to remove the Power Board and 2 screws B (T3x6) to remove SW902.
3. Remove 4 screws C (T3x6) to remove the Ballast Board.
4. Remove 2 screws D (T3x6) , screw E (T3x6) and 2 screws F (T3x6) to to remove the Power Board Holder.
5. Remove screw G (T3x6) to remove the Line Filter Board and the Line Filter Board Holder.
6. Remove the fan (FN906).
7. Remove screw H (M3x8) to remove the Ballast socket.

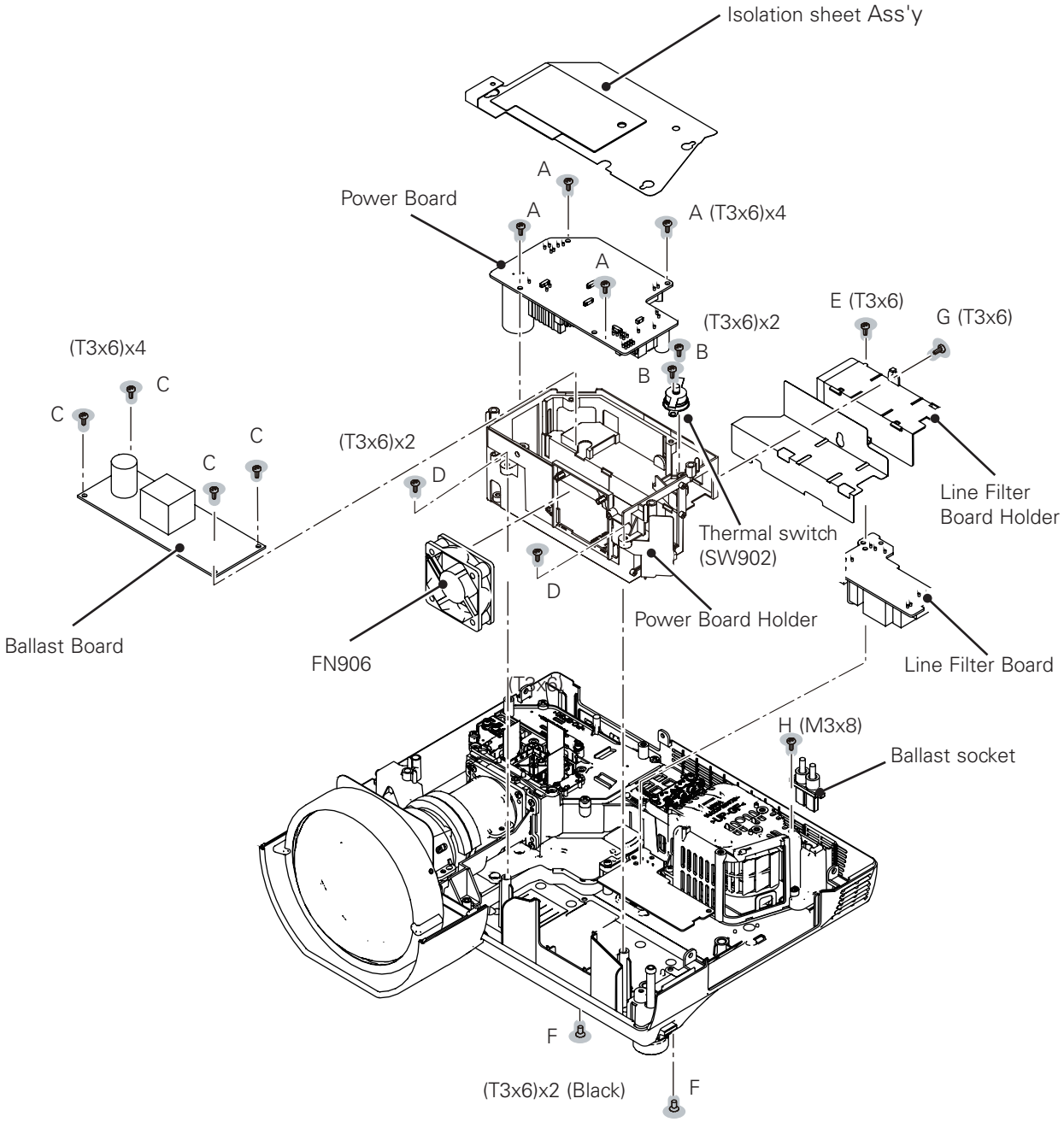


Fig.3

4 Optical Unit, Fans (FN903, FN904), Noise Filter removal

1. Remove the Lens top spacer sheet.
2. Remove 6 screws A (T3x6) and 2 screws B (T3x12) to remove the Optical unit.
3. Remove the Lens bottom spacer sheet.
4. Remove 2 screws C (T3x6) to remove the Noise filter.
4. Remove screw D (T3x6) to remove the PBS Duct.
5. Remove 4 screws E (T3x10) and 3 screws F (T3x6) to remove the Duct Top and the Noise filter spacer sheet.
6. Remove screw G (T3x8) to remove the fans (FN903 and FN904), Remove the LCD Panel Duct Top and LCD Panel Duct Bottom .

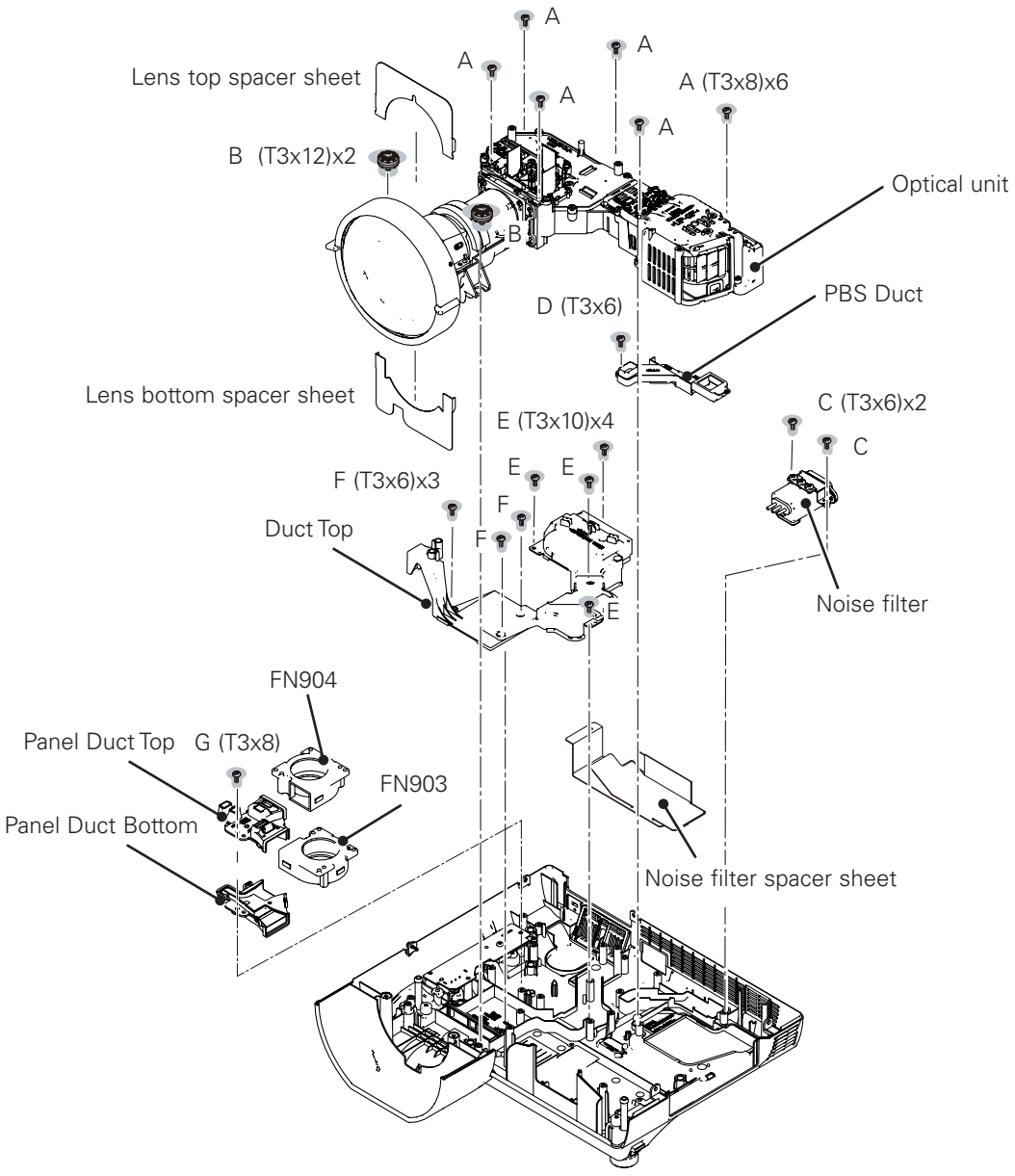


Fig.4

5 Alarm-A and Alarm-B board removal

1. Remove 4 screws A (T3x6) to remove the Alarm_A Board, LED Spacer and Alarm_B Board.
2. Remove screw B (M3x8) to remove the Battery cover and the Battery.
3. Remove screw C (M3x8) to remove the Swicth cover.
4. Remove screw D (T3x6) to remove the Alarm Board Holder.

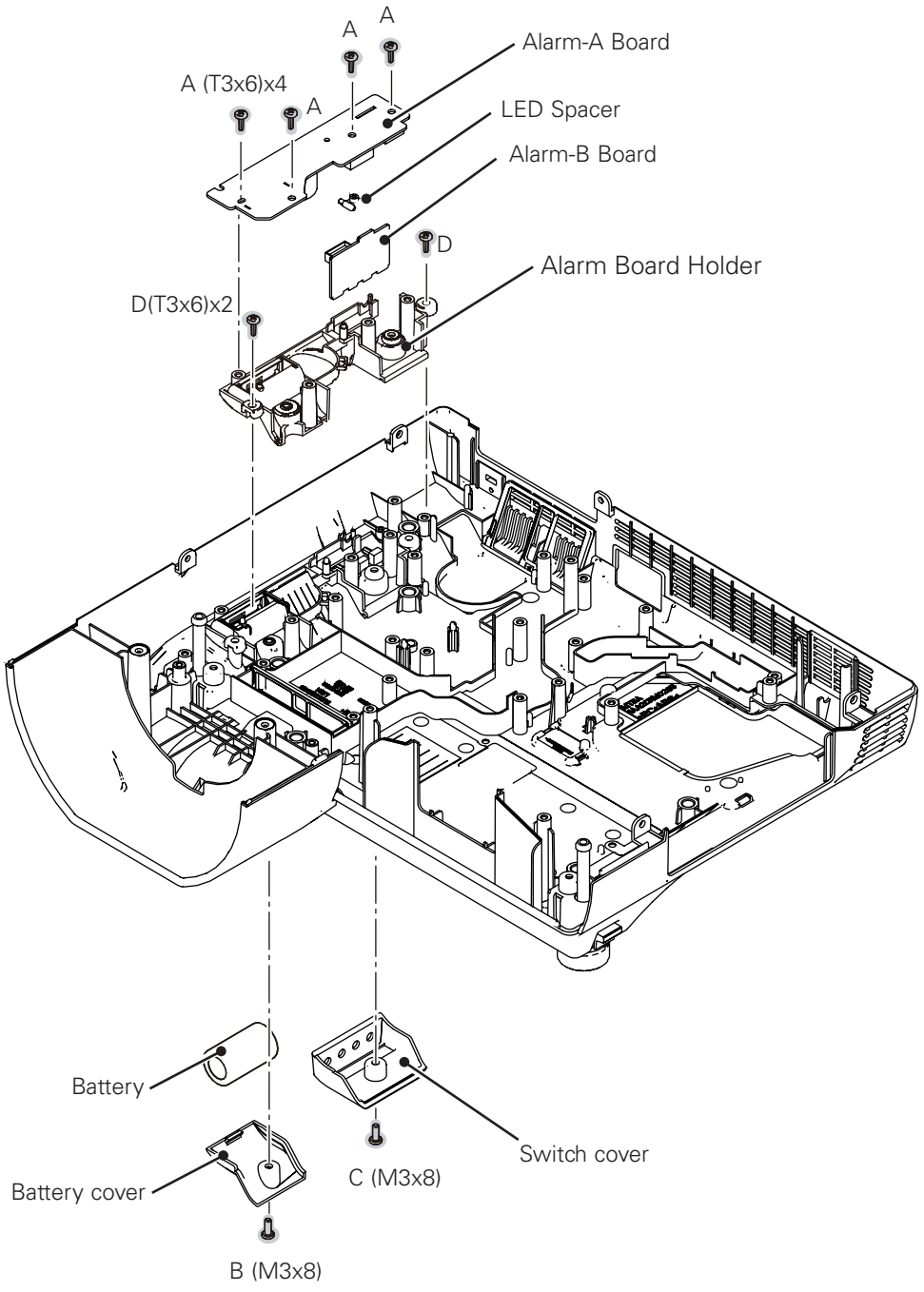


Fig.5

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top, Main Board and the Lamp Spacer Sheet following to the "Mechanical Disassembly".
Disassembly requires a 2.0mm hex wrench.

1 Projection lens removal

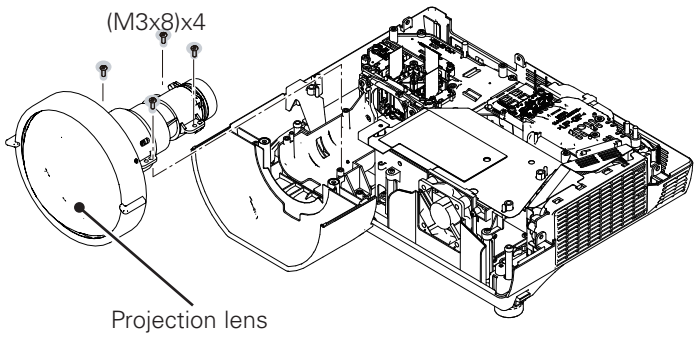
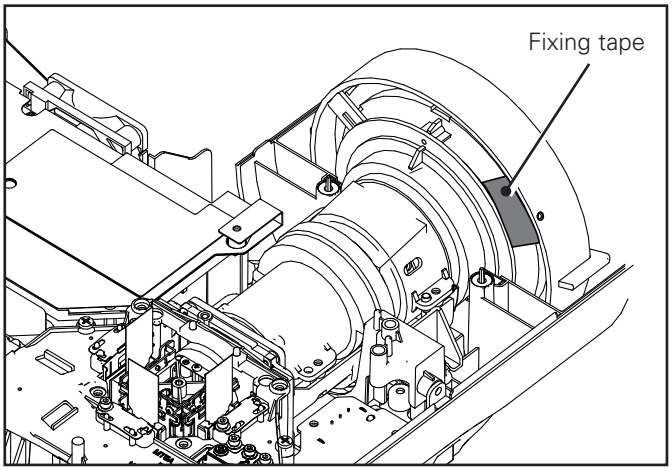


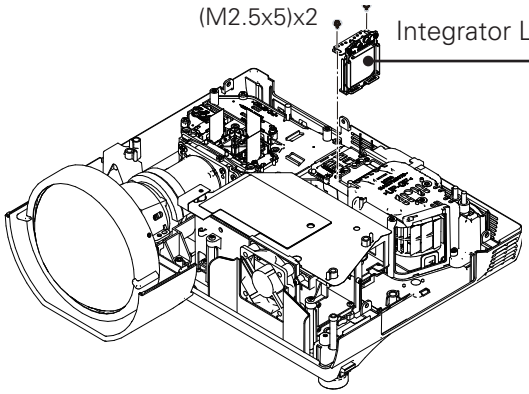
Fig.1

Note on replacing the Projection Lens
- When the Projection Lens is replaced with the new one and reassembled, please make the lens near the side to the Prism and fix it.



Note on replacing the Projection Lens
- When the Projection Lens is replaced with the new one, make sure that the fixing tape must be removed as the figure.

2 Integrator lens-in disassembly



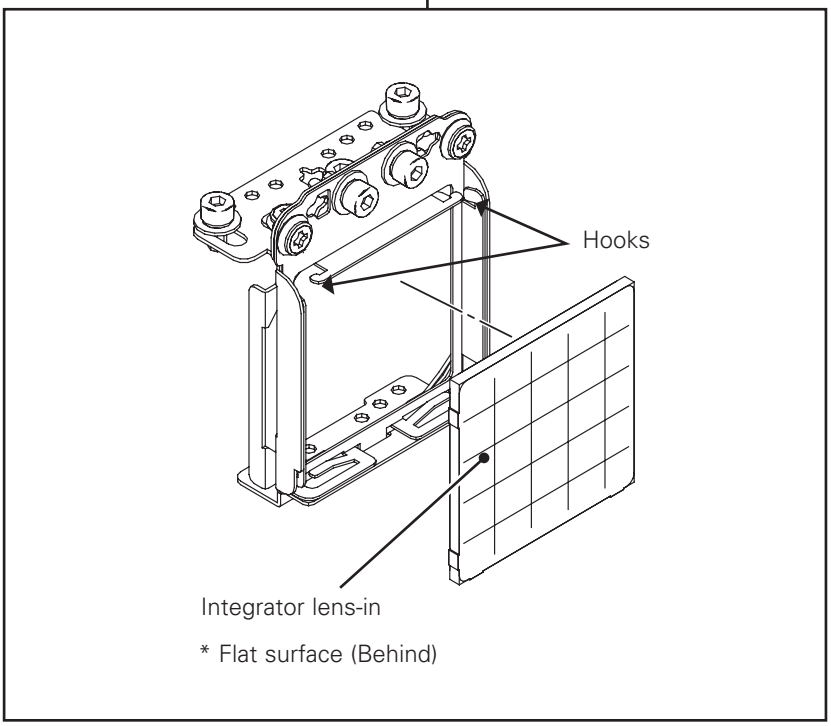


Fig.2

3 Relay lens disassembly

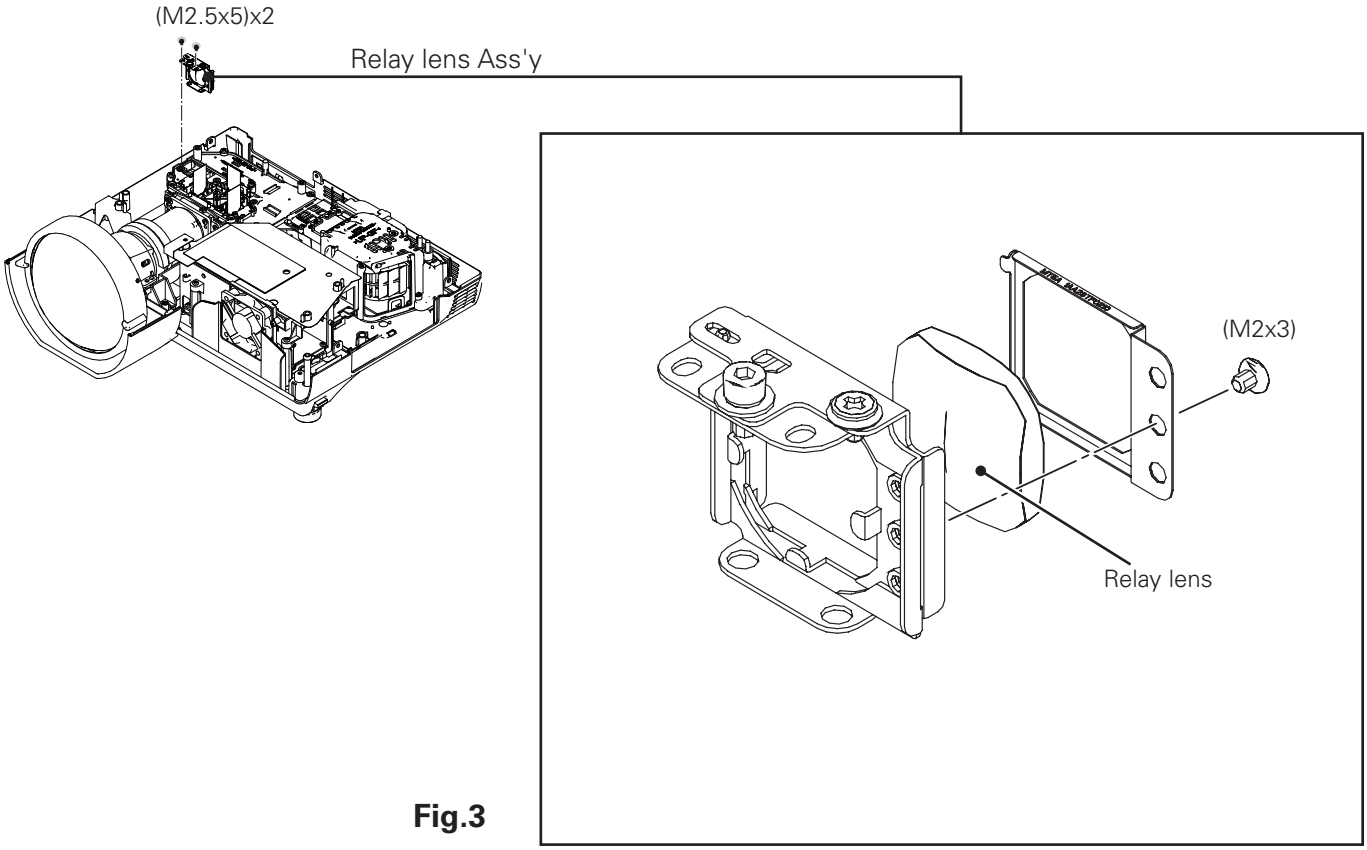


Fig.3

4 Polarized glass-in disassembly

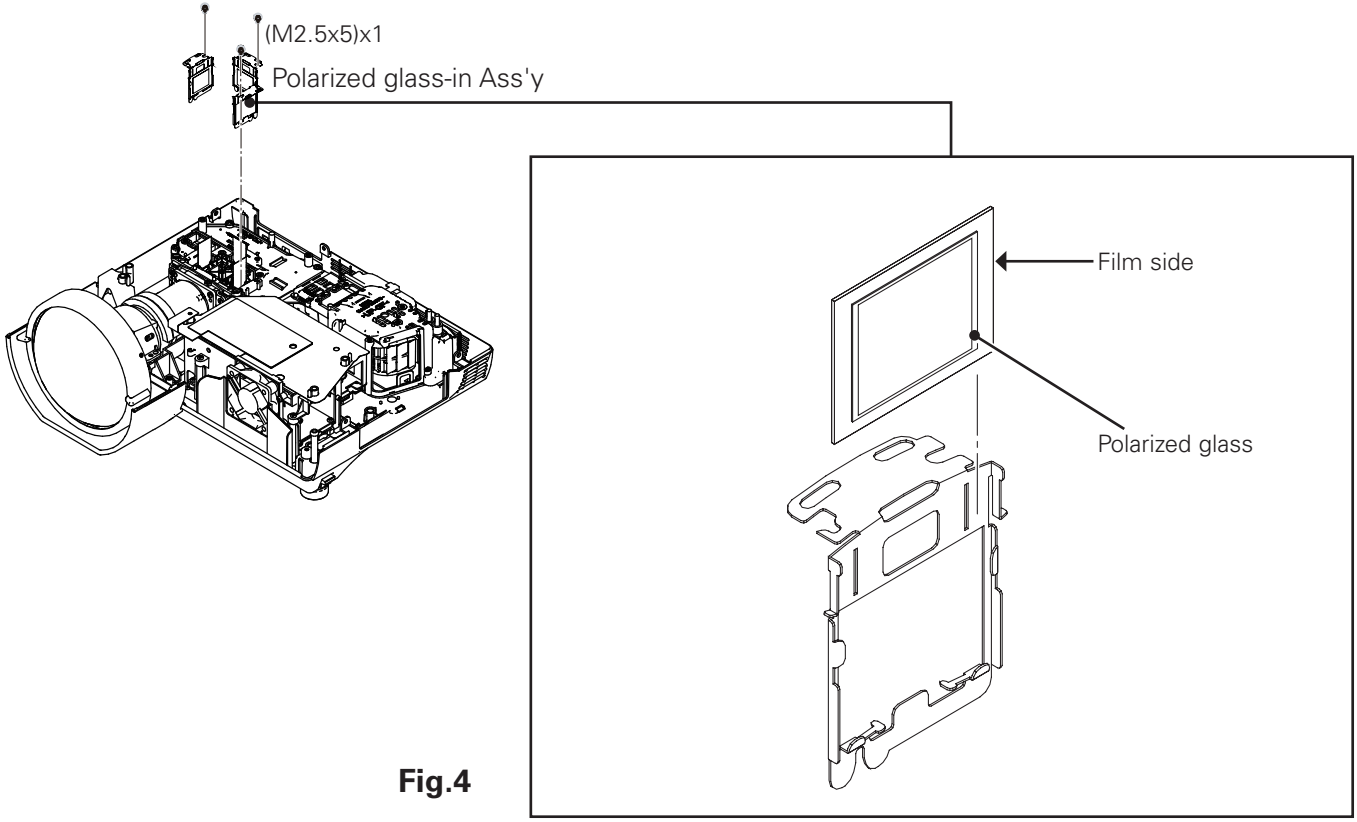


Fig.4

5 LCD Panel/Prism Ass'y removal

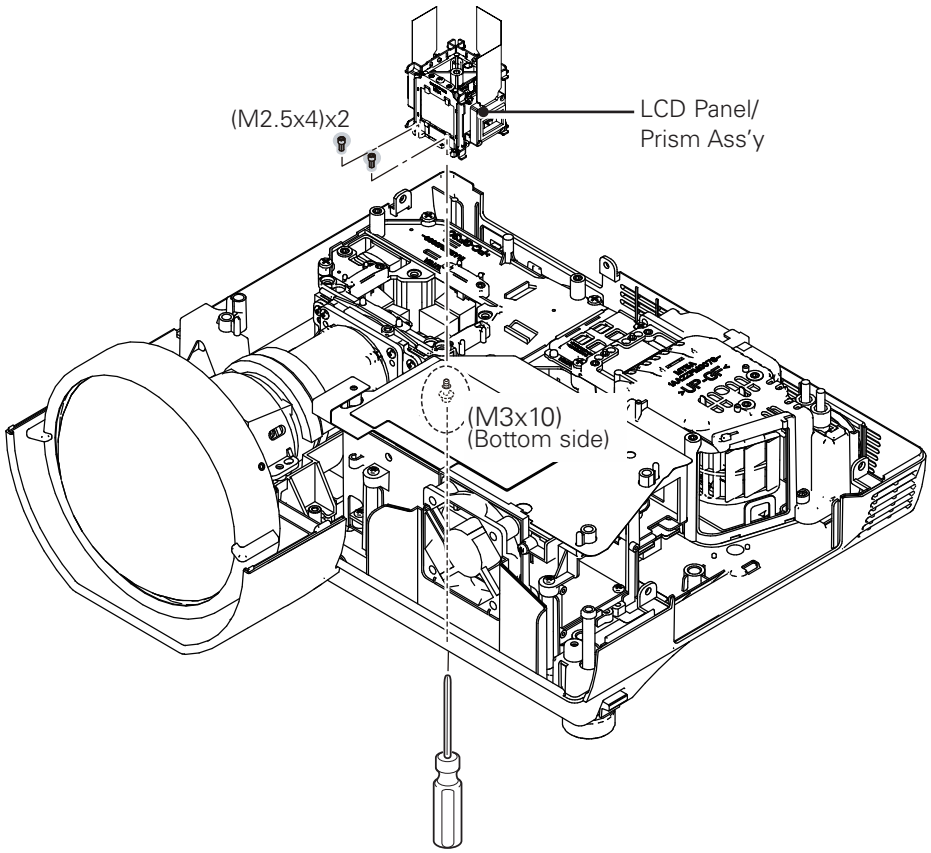


Fig.5

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment" , "Gamma Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.
  If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

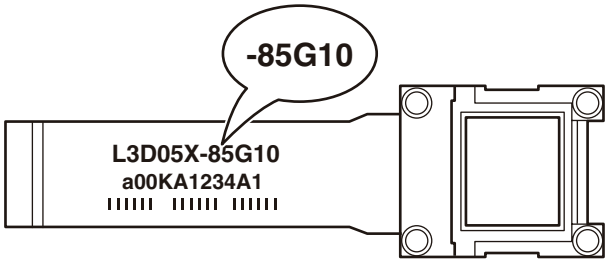
Panel Type Check

There are 2 types of LCD/Prism Ass'y for this model. Either L-Type or R-Type LCD /Prism Ass'y is used on the projector. Check which type of LCD/Prism Ass'y is used with the figure below.
When replacing the LCD/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD/Prism Ass'y.
The gamma-characteristics is different between L-Type and R-Type LCD /Prism Ass'y.

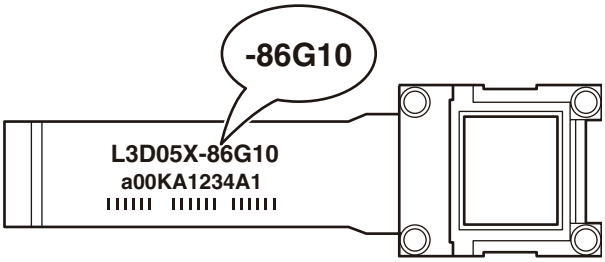
How to check the type of LCD/Prism Ass'y

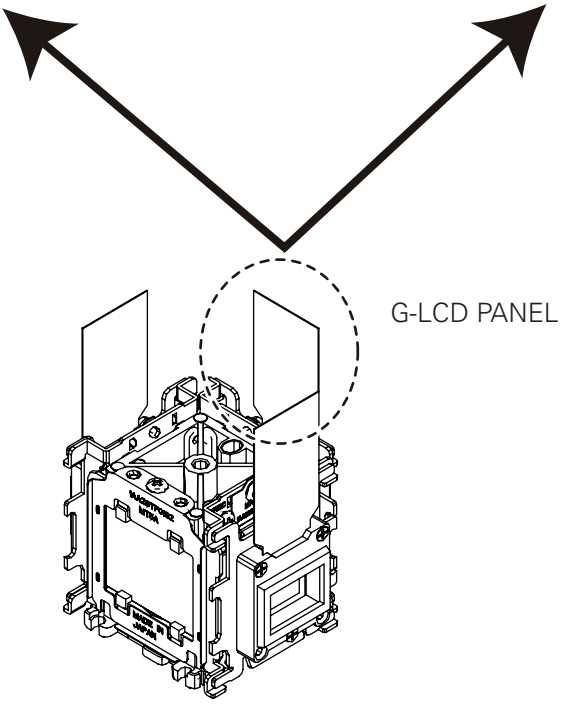
Check the printed number on the flat cable of the G-LCD Panel.

L-Type LCD/Prism Ass'y



R-Type LCD/Prism Ass'y





6 Polarized glass, Pre-polarized glass removal

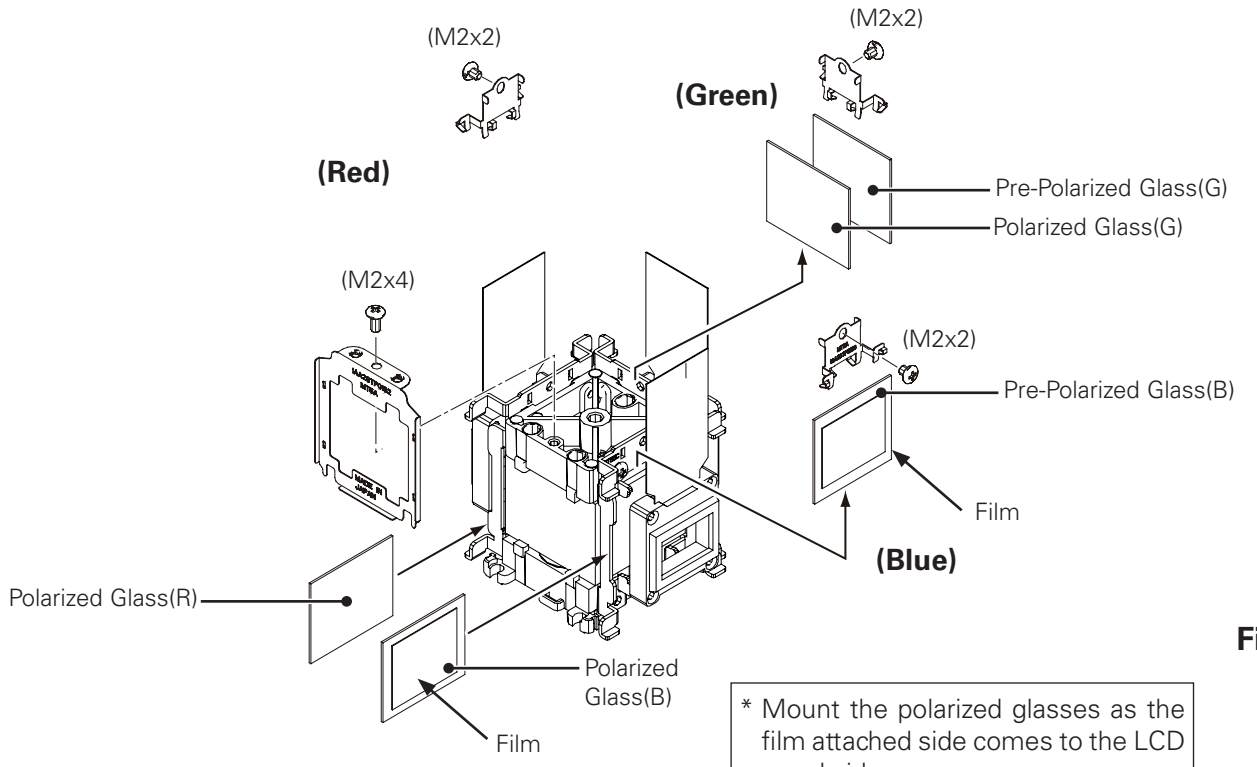


Fig.6

* Mount the polarized glasses as the film attached side comes to the LCD panel side.

7 Optical Unit Top removal

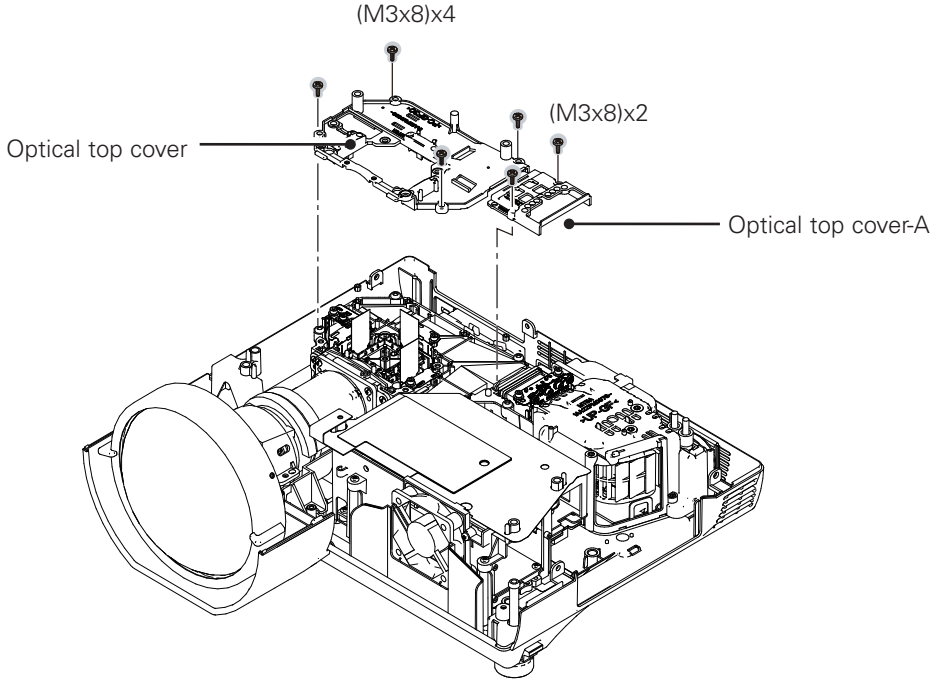


Fig.7

8 Locations and Directions

When mounting or assembling the optical parts in the optical unit, the parts must be mounted in the specified location and direction as shown in figure below.

No.	Parts Name
1	Integrator lens (OUT)
2	Prism beam splitter (PBS)
3	Condenser lens (OUT)
4	Dichroic mirror (B)
5	Dichroic mirror (G)
6	Condenser lens (G)
7	Mirror (R)
8	Condenser lens (R)
9	Condenser lens (B)
10	Mirror (B)

The arrows in the figure indicate the mount direction of the part for the replacement. Check the number on the arrows and mount each part according to its note;
A: The printed part no. comes to this side.
B: Flat surface comes to this side.

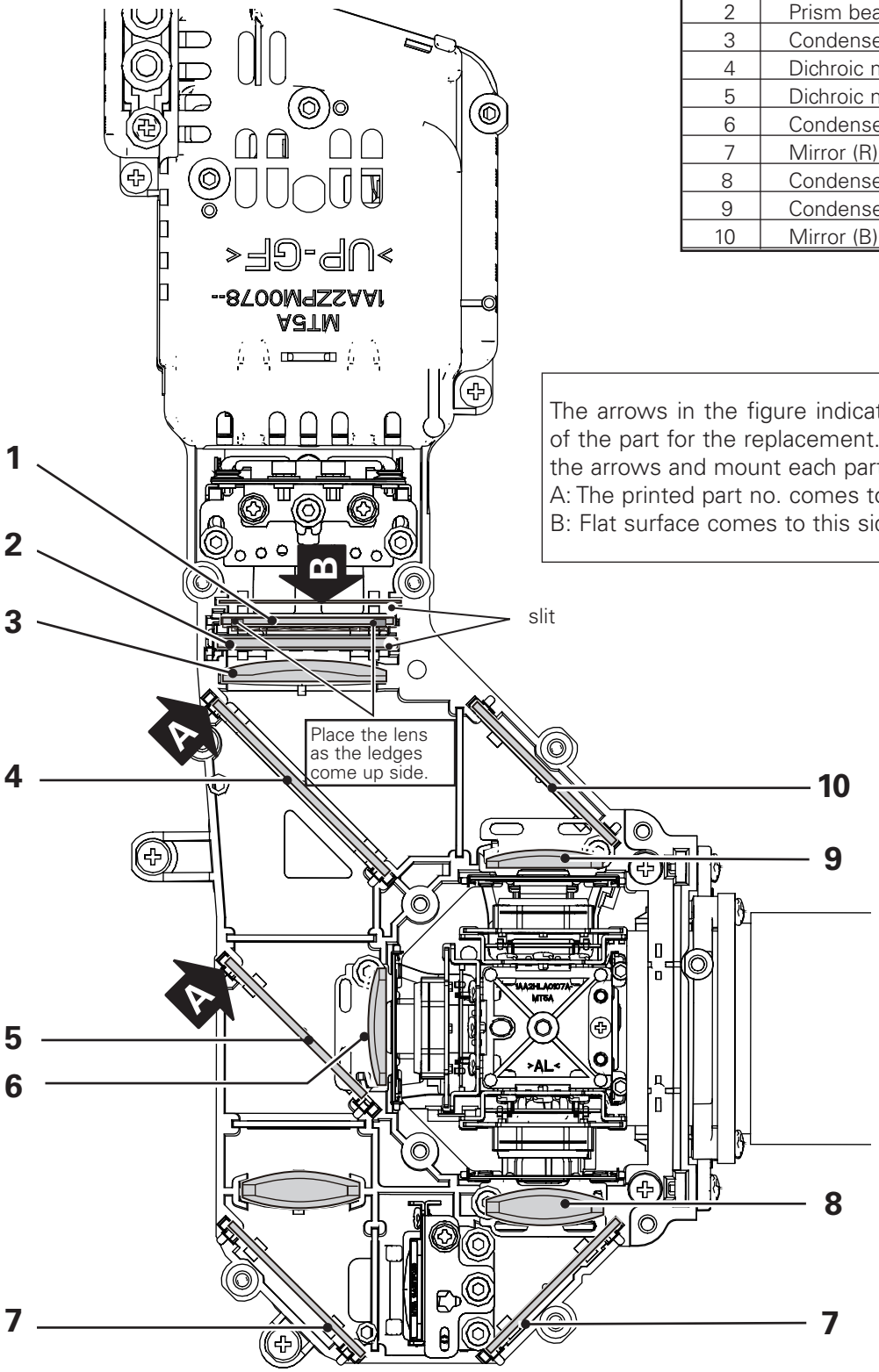


Fig.8

Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized Glass			Power Board	Main Board
					R	G	B		
Optical Adjustments	Contrast Adjustment								
	R-Contrast adjustment				●				
	G-Contrast adjustment					●			
	B-Contrast adjustment						●		
	Integrator lens adjustment	❍	●						
	Relay lens-out adjustment	❍		●					
Electrical Adjustments	Fan control adjustment							●	●
	Panel type check and setting	●							●
	Auto calibration adjustment [PC]								●
	Auto calibration adjustment [Component]								●
	Auto calibration adjustment [Video]								●
	Common center adjustment	●							●
	50% white adjustment [PC]	●							●
	White balance adjustment [PC]	❍							❍
	50% white adjustment [Video]	●							●
	White balance adjustment [Video]	❍							❍
	White uniformity adjustment	❍							❍

Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top and the Lamp Spacer Sheet following to the "Mechanical Disassembly".
Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board.
Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.

WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

[Before Adjustment]
- Input a 100% of black raster signal.

1 Loosen a screw **A (Fig.1)** on the polarized glass mounting base which you intend to adjust.
2 Adjust the slot **B** to obtain the darkest brightness on the screen by using a slot screwdriver.
3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

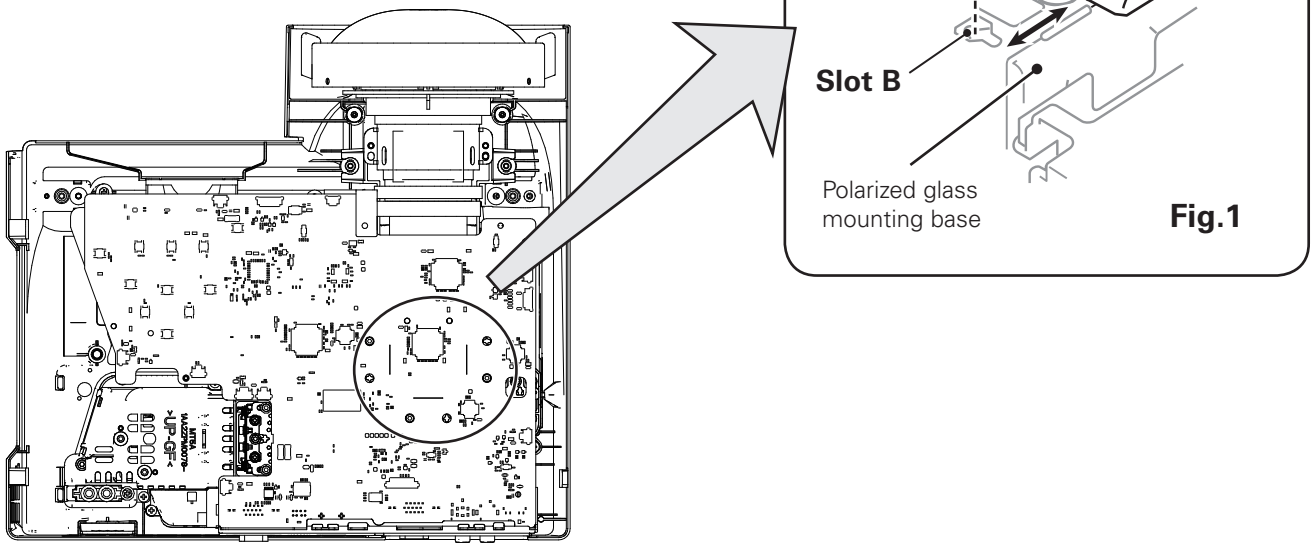
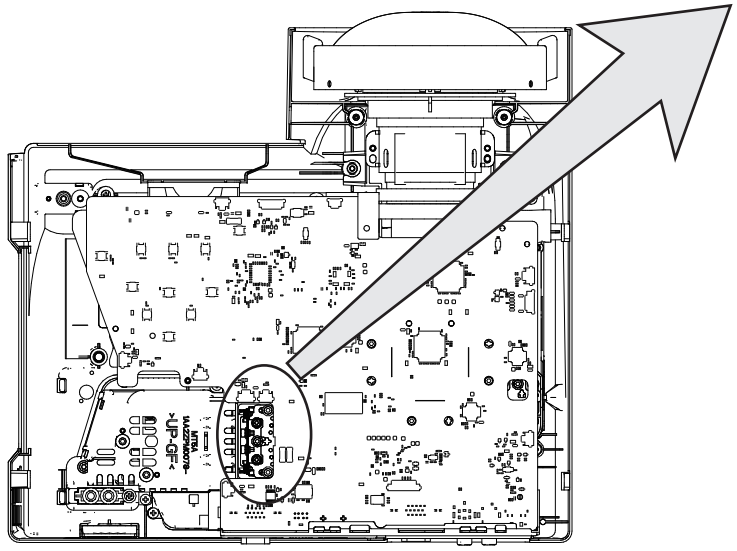


Fig.1

Integrator lens adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
   1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 1 screw **A** , and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
   2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and adjust the slots **D** to make color uniformity in white by using a slot screwdriver
4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:
The relay lens adjustment must be carried out after completing this adjustment.



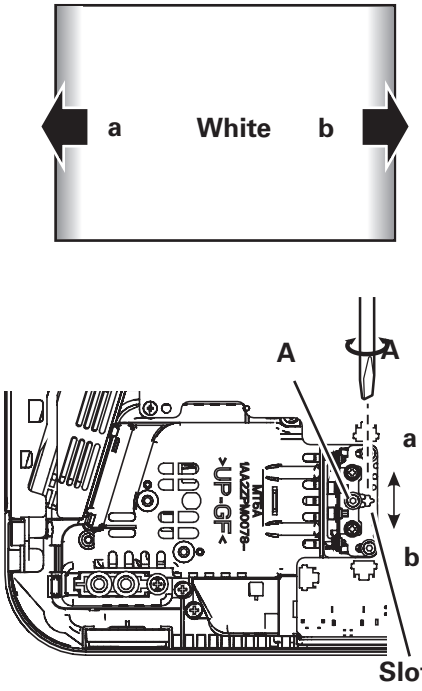


Fig.2-1
Moving of slot B

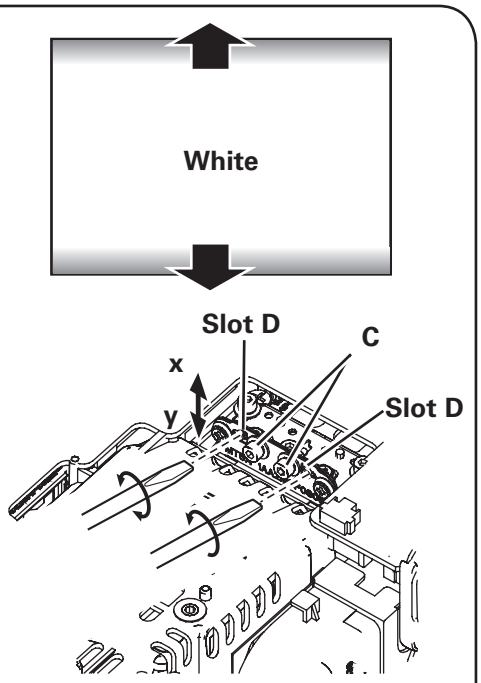
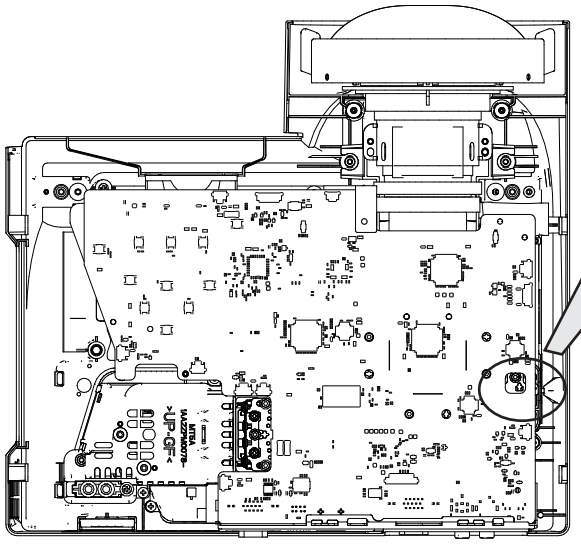


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
4 Tighten the screws **A** to fix the relay lens unit.



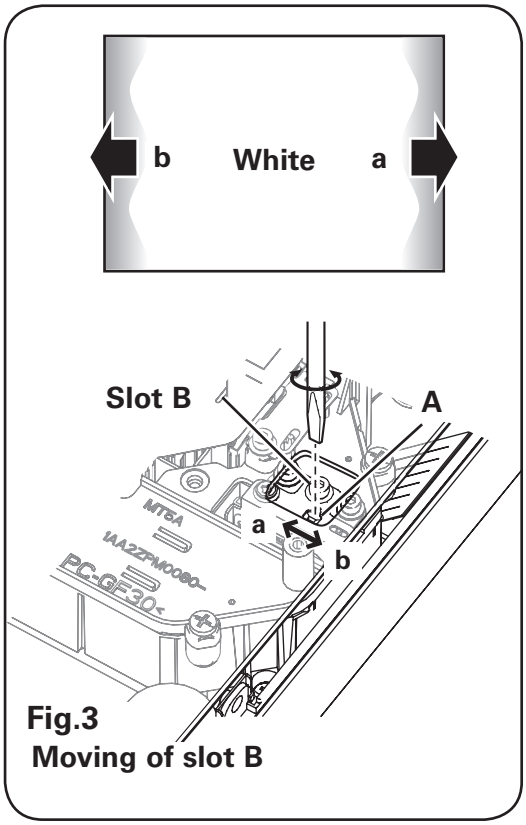


Fig.3
Moving of slot B

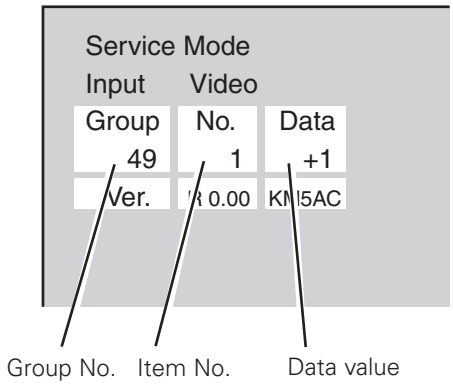
Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode
To enter the" Service Mode", press and hold the **MENU button** on the remote control for more than 20 seconds. The service menu appears on the screen as follows.

To adjust service data
Select the adjustment group no. by pressing the **MENU button (increase)** or **SELECT button (decrease)** on the remote control, and select the adjustment item no. by pressing the pointer ▲ or ▼ **button**, and change the data value by pressing the ◀ or ▶ **button**. Refer to the" Service Adjustment Data Table" for further description of adjustment group no., item no. and data value.

To exit the service mode
To exit the service mode, press the **ON-OFF button** on the remote control.



Memory IC (IC1391) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.
If replaced, the re-adjustments are required following to the" Electrical Adjustments".
The data of lamp replacement counter is stored in the Memory IC.
Please note that the lamp replace counter will be reset when the memory IC is replaced.
(Lamp replace counter cannot be set to the previous value.)

● **Caution to memory IC replacement**
When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the" Electrical Adjustments".
Please note that in this case the lamp replace counter will be reset.

● **Caution of Main Board replacement (in the case memory IC is not defective)**
When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the" Electrical Adjustments".
In this case, the lamp replace counter can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety. Before adjustment, please turn on the projector more than ten minutes.

WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

- Input signal

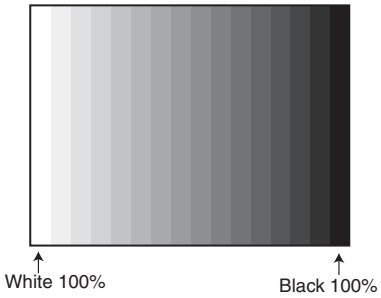
Video signal .....1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)

Component Video signal .....1.0Vp-p/75Ω terminated, 8 color 100% color bar or 16 step gray scale (Component video signal)

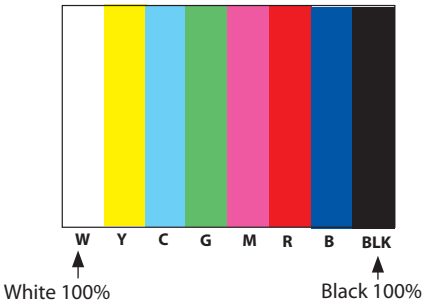
Computer signal.....0.7Vp-p/75Ω terminated, 16 steps gray scale pattern

- Image control mode.....“STANDARD” mode unless otherwise noted.

16 steps gray scale pattern



8 color 100% color bar



Note:

* Please refer to “Service Adjustment Menu Operation” for entering the service mode and adjusting the service data.

Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of **K6D**.
2. Adjust the voltage by using VR611 as following.

AC Input	Reading
230V	380V ±2V

Caution:
Be sure to connect the lamp when taking this adjustment.

* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1.Fan Control adjustment

1. Enter the service mode.
2. Connect a digital voltmeter to test point “**TPFANA**” (+) and chassis ground (-). Select group no. “**250**”, item no. “**0**” and change data value to adjust voltage to be **5.0 ±0.1V**.
3. Connect a digital voltmeter to test point “**TPFANB**” (+) and chassis ground (-). Select group no. “**250**”,item no. “**2**” and change data value to adjust voltage to be **6.2 ±0.1V**.
4. Connect a digital voltmeter to test point “**TPFANA**” (+) and chassis ground (-). Select group no. “**250**”,item no. “**1**” and change data value to adjust voltage to be **13.5 ±0.1V**.
5. Connect a digital voltmeter to test point “**TPFANB**” (+) and chassis ground (-). Select group no. “**250**”,item no. “**3**” and change data value to adjust voltage to be **13.5 ±0.1V**.

2. Panel Type Check and Setting

* Before setting, you need to check which type of LCD panel is placed on the projector according to the item "LCD Panel/Prism Ass'y removal" in the chapter "Optical Parts Disassembly".

1. Enter the service mode.
2. Panel Type Check
   Select group no. "**290**", item no. "**0**". Check the data value as follows;
   Data value: 0 For L-Type of LCD Panel
   Data value: 20 For R-Type of LCD panel
3. Panel Type Setting
   Select group no. "**290**", item no. "**1**" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

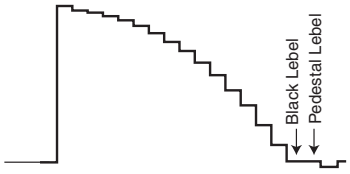
3. Auto Calibration adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. To start the auto-calibration for PC adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

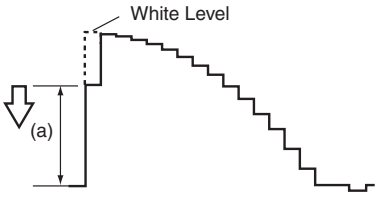
Pedestal adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP_G1**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TP_R1**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TP_B1**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP_G1**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TP_R1**" (+) and chassis ground (-).
6. Select group no. "**0**", item no. "**4**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TP_B1**" (+) and chassis ground (-).
8. Select group no. "**0**", item no. "**5**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



4. Auto Calibration adjustment [Component]

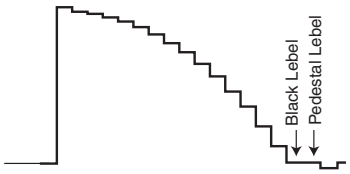
1. Enter the service mode.
2. Receive the 8 color 100% color bar 480i-component signal with **Computer1 [Component]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

Pedestal adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer1 [Component]** mode.
3. Connect an oscilloscope to test point "**TP_G1**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.

5. Connect an oscilloscope to test point "**TP_R1**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TP_B1**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



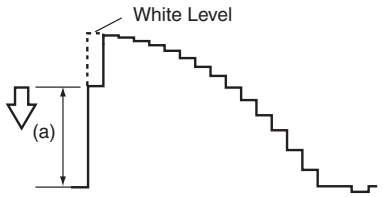
5. Auto Calibration adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

below adjustment is performed when the above auto calibration is failed.

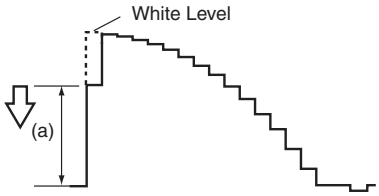
Gain adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
3. Connect an oscilloscope to test point "**TP_G1**" (+) and chassis ground (-).
4. Select group no. "**20**", item no. "**0**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



Gain adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP_G1**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TP_R1**" (+) and chassis ground (-).
6. Select group no. "**0**", item no. "**4**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TP_B1**" (+) and chassis ground (-).
8. Select group no. "**0**", item no. "**5**" and adjust the amplitude "**a**" to be minimum by changing the Data value.

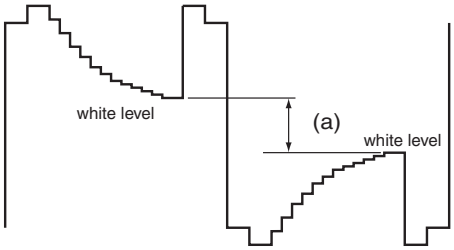


6. Common Center adjustment

1. Enter the service mode.
2. Receive the 50%-Whole Gray computer signal with **Computer1 [RGB]** mode.
3. Select group no." **100**", item no." **92**" and change data value to" **2**" to reduce the panel frequency.
4. Project only green light component to the screen.
5. Select group no." **101**", item no." **1**" and change data value to obtain the minimum flicker on the screen.
6. Project only red light component to the screen.
7. Select item no." **0**" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no." **2** and change data value to obtain the minimum flicker on the screen.
10. Select group no." **100**", item no." **92**" and change data value to" **0**" to reset the panel frequency.

7. 50% White adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP_G1**" (+) and chassis ground (-).
4. In Standard mode, select group no. "**100**", item no. "**235**" and change data value to "**0**".
5. Select group no. "**100**", item no. "**6**" and change data value to adjust amplitude "**a**" to be **1.6V**.
6. select group no. "**100**", item no. "**235**" and change data value to "**1**".



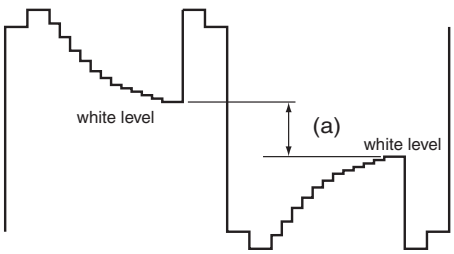
8. White Balance adjustment [PC]

1. Enter the service mode,
2. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
3. Select group no. "**100**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

9. 50% White adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Connect an oscilloscope to test point "**TP_G1**" (+) and chassis ground (-).
4. In Standard mode, select group no. "**100**", item no. "**235**" and change data value to "**0**".
5. Select group no. "**100**", item no. "**6**" and change data value to adjust amplitude "**a**" to be **0.85V**.
6. select group no. "**100**", item no. "**235**" and change data value to "**1**".



10. White Balance adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Select group no. "**100**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

11. Color Shading Correction adjustment

If the correction of the Color shading adjustment is necessary, please adjust the "Color shading" by using the "COLOR SHADING CORRECTION" software supplied separately.
The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as below.

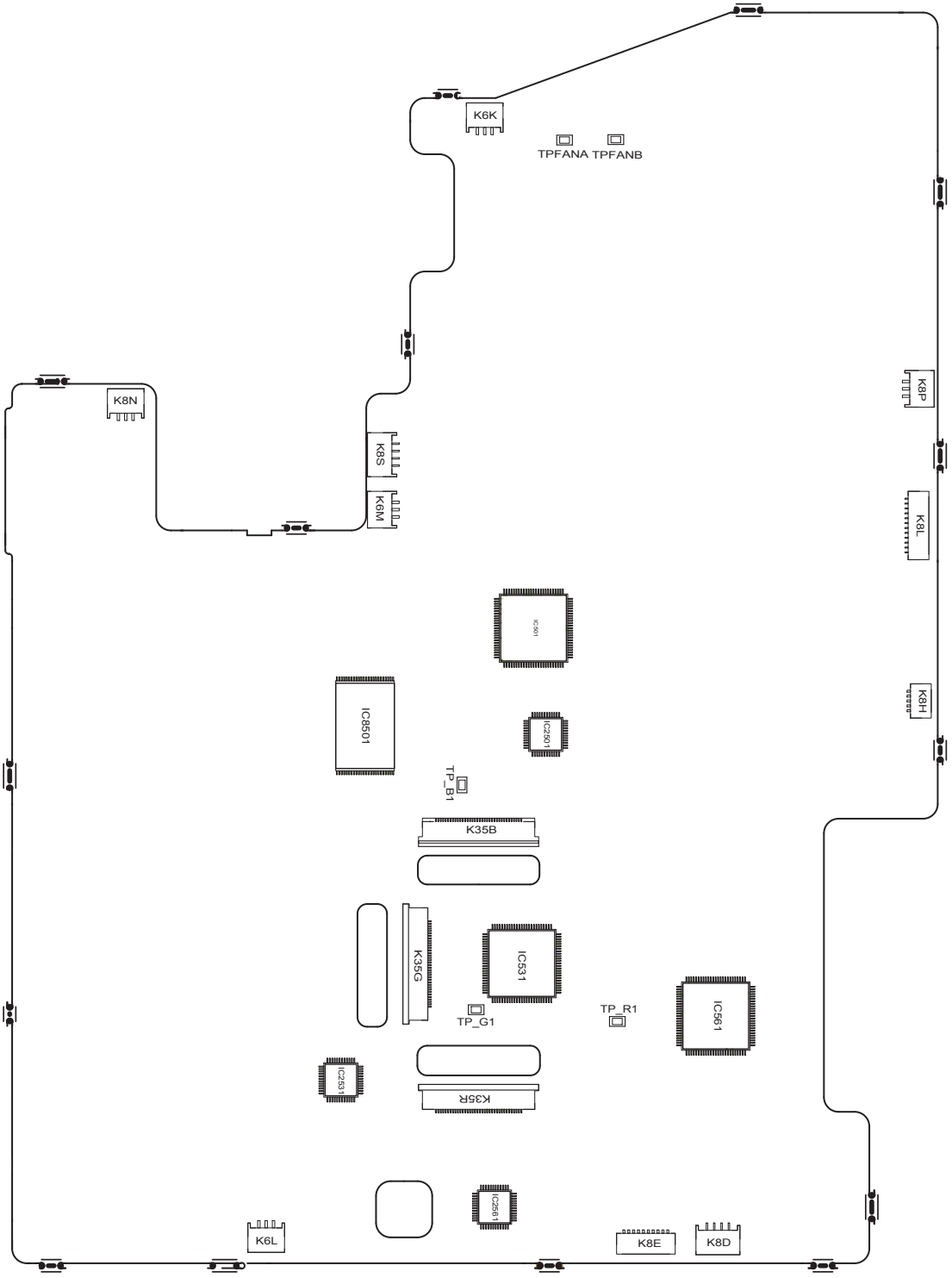
4-input patterns:
6.25% gray, 12.5% gray, 25% gray, 50% gray

The Color Shading Correction can be ordered with following service code.

COLOR SHADING CORRECTION Ver. 4.00	
Service Parts No.	645 075 9611

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with" ✻" are required to readjust following to the" Electrical adjustments". Other items should be used with the initial data value.

Group/ Item	Item Name	Function	Initial	Range	Note
Group 0	**AD Converter (PW190)**				
0	ADC G-OFFSET	PC / Component / SCART	128/120/128	0 - 255	* G-Pedestal Adjustment
1	ADC R-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* R-Pedestal Adjustment
2	ADC B-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* B-Pedestal Adjustment
3	ADC G-GAIN	PC / Component / SCART	50/50/50	0 - 255	* G-Gain Adjustmen
4	ADC R-GAIN	PC / Component / SCART	40/40/40	0 - 255	* R-Gain Adjustmen
5	ADC B-GAIN	PC / Component / SCART	40/40/40	0 - 255	* B-Gain Adjustmen
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	
7	GRNAADWNSMPL / RBAADWNSMPL	Green (Red and Blue) Anti-Alias Downsample	0 / R / R	0 - 3	Composite & S-Video / Component / PC
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	*R: Read only value
10	SOGTH	PC / Component / SCART SyncOn Green Threhould	6 / 3 / 2	0 - 15	
11	SOGHYSDIS	PC / Component / SCART Sync On Green Hsysterisis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	0 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
138	PreCoast PC Video 1080p 60Hz		7	0 - 63	
139	PostCoast PC Video 1080p 60Hz		13	0 - 63	
140	PreCoast PC Video 1080p 50Hz		7	0 - 63	
141	PostCoast PC Video 1080p 50Hz		13	0 - 63	
142	PreCoast PC Video 1080p 30Hz		7	0 - 63	
143	PostCoast PC Video 1080p 30Hz		13	0 - 63	
144	PreCoast PC Video 1080p 25Hz		7	0 - 63	
145	PostCoast PC Video 1080p 25Hz		13	0 - 63	
146	PreCoast PC Video 1080p 24Hz		7	0 - 63	
147	PostCoast PC Video 1080p 24Hz		13	0 - 63	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	
183	PostCoast SCART 575i		13	0 - 63	
Group 10	**Sync Processor**				
0	SYNCAMPHLCKTOLOW	Minimum sync amplitude threshold for HLCK 1 to 0 tansition	0x1000	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 tansition	0x700	0 - 9999	
Group 20	**Video Decoder** *R : Read Only Value				
0	Y Level	Composite / S-Video -Y Level (ADC RGB Gain)	10 / 10	0 - 255	Composite / S-Video * Gain Adjustment [Video]
1	C Level	Composite / S-Video - C Level (ADC Saturation)	115 / 115	0 - 255	Composite / S-Video
2					
3	XCXL Level	Cross-Chroma, Cross-Luma Level	3	0 - 5	
4	C2DNBANDWIDTH	Comb 2D Narrow Bandwidth	3 / 3	0 - 3	NTSC/PAL
5	C2DWBANDWIDTH	Comb 2D Wide Bandwidth	4 / 4	0 - 7	NTSC/PAL
6	C2DCNMINLEAK	Comb 2D Chroma Narrow Band Minimum Leakage	0 / 3	0 - 3	Left Values are adjustable if CXCL Level = 5.
7	C2DCNSLOPELEAK	Comb 2D Narrow Band Slope Leakage	7 / 7	0 - 7	NTSC/PAL
8	C2DCWMINLEAK	Comb 2D Wide Band Minimum Leakage	1 / 3	0 - 3	NTSC/PAL
9	C2DCWSLOPELEAK	Comb 2D CW Slope Leakage	6 / 6	0 - 7	NTSC/PAL
10	COMBLEAK2BPGAIN	Comb Leak To Ban Pass Gain	1 / 0	0 - 3	NTSC/PAL
11	C2DBDIAGONALGAIN	Comb 2D Band Pass Diagonal Gain	1 / 3	0 - 3	NTSC/PAL
12	C2DNBCWBCLGAIN	Comb 2D Narrow Band Comb Wide Band Comb	1 / 1	0 - 3	NTSC/PAL
13	RLUMASETUP-Enable	7.5IRE Setup Enable	0	0 - 1	Effective only NTSC Signal
Group 40	**General**				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41	**Deinterlacer setting** Effective only for Progressive ON-L1 mode.				

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 42	**Deinterlacer setting** Effective only for Progressive ON-L2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43	**Deinterlacer setting** Effective only for Progressive ON/Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45	**Noise Reduction (Time)** Effective only for N.R - Off				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0	0 - 255	
Group 47	**Noise Reduction (Time)** Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	50	0 - 255	
Group 49	**Noise Reduction (Time)** Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	**2:2pull down setting**				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	**2:3pull down setting**				

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 32767	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 32767	
4	Global Motion Threshold	<GMDTHRD>	124	0 - 1024	
5	23Film Mode Threshold	<FILMTHRD23>	100	0 - 32767	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 2047	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 1023	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 60	**Image**				
0	Center Contrast		512/556/534/534/492/492	0 - 1023	Video(S-Video) / Component / SCART / ANALOG / DIGITAL / HDCP Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center [Setting Value to PW] Contrast [Max] 1023 [Min] 0 Brightness [Max] 1023 [Min] 0 Color [Max] 1023 [Min] 0 Tint [Max] 180 [Min] 0 Sharpness [Max] 57 [Min] 0
1	Center Brightness		512/480/512/500/512/512	0 - 1023	
2	Center Color		512/534/512/512/512/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Center Sharpness		16/16/16/16/16/16	16	
5	Alpha Contrast		40/40/40/40/40/40	0-1000	
6	Alpha Brightness		70/70/70/70/70/70	0-1000	
7	Alpha Color		70/70/70/70/70/70	0-1000	
8	Alpha Tint		10/10/10/10/10/10	0-1000	
9	Alpha Sharpness		10/10/10/10/10/10	0-1000	
Group 100	**Panel Service**				
0	G-SubGain		2048/2068/1940/1960/2100/1900/2000/1600	0-4095	PCStandard/PCDynamic/PCReal/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVBlackBoard
1	R-SubGain		2048/2068/1940/1960/1800/2000/1900/1600	0-4095	
2	B-SubGain		2048/2068/1940/1960/2100/2000/1900/2110	0-4095	
3	G-SubBright		0/0/32/32/10/0/0/0	0-4095	PCStandard/PCDynamic/PCReal/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVBlackBoard
4	R-SubBright		0/0/32/32/10/50/20/0	0-4095	
5	B-SubBright		0/0/32/32/17/0/0/0	0-4095	
6	G-GammaShift		0/0	0-4095	PC/AV Center=512 R] and [B] are linked with [G]
7	R-GammaShift		0/0	0-4095	
8	B-GammaShift		0/0	0-4095	
9	G-ReferH		4000/4000	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
10	G-ReferL		300/300	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
11	R-ReferH		4000/4000	0-4095	Scan Direction (Front/Rear)
12	R-ReferL		300/300	0-4095	Scan Direction (Front/Rear)
13	B-ReferH		4000/4000	0-4095	Scan Direction (Front/Rear)
14	B-ReferL		300/300	0-4095	Scan Direction (Front/Rear)
15	DXOutR		258	0-1023	
16	DXOutG		258	0-1023	
17	DXOutB		258	0-1023	
18	H_Change_Pos		24	0-255	
19	SH_Base		273	0-4095	
20	NRG_Pos		48	0-127	
21	NRG_Width		50	0-255	
22	OSD_Pos		2	0-3	
23	OSD_Ptn		0	0-9	
24	GammaCtrl		1	0-1	
25	REF_GatePos		12	0-1023	
26	REF_GateDur		177	0-1023	
27	R-BasePos		2	0-15	
28	G-BasePos		2	0-15	
29	B-BasePos		2	0-15	
30	RGB-Adjust		0	0-7	
31	RGB-AdjLv		0	0-4095	Operation STEP=256[0<->256<->512<->768<->1023]
32	LineR0		0	0-1023	(MIN<–>MAX Cyclic Operation)

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
33	LineR1		0	0-1023	(MIN<-->MAX Cyclic Operation)
34	LineR2		0	0-1023	(MIN<-->MAX Cyclic Operation)
35	LineR3		0	0-1023	(MIN<-->MAX Cyclic Operation)
36	LineR4		0	0-1023	(MIN<-->MAX Cyclic Operation)
37	LineG0		0	0-1023	(MIN<-->MAX Cyclic Operation)
38	LineG1		0	0-1023	(MIN<-->MAX Cyclic Operation)
39	LineG2		0	0-1023	(MIN<-->MAX Cyclic Operation)
40	LineG3		0	0-1023	(MIN<-->MAX Cyclic Operation)
41	LineG4		0	0-1023	(MIN<-->MAX Cyclic Operation)
42	LineB0		0	0-1023	(MIN<-->MAX Cyclic Operation)
43	LineB1		0	0-1023	(MIN<-->MAX Cyclic Operation)
44	LineB2		0	0-1023	(MIN<-->MAX Cyclic Operation)
45	LineB3		0	0-1023	(MIN<-->MAX Cyclic Operation)
46	LineB4		0	0-1023	(MIN<-->MAX Cyclic Operation)
47	GhostR-Pos		2	0-31	
48	GhostG-Pos		2	0-31	
49	GhostB-Pos		2	0-31	
50	GhostR-Cent		2	0-2047	
51	GhostR-Start		128	0-255	
52	GhostR-End		128	0-255	
53	GhostG-Cent		2	0-2047	
54	GhostG-Start		128	0-255	
55	GhostG-End		128	0-255	
56	GhostB-Cent		2	0-2047	
57	GhostB-Start		128	0-255	
58	GhostB-End		128	0-255	
59	BlockR1		2047	0-2047	(MIN<-->MAX Cyclic Operation)
60	BlockG1		2047	0-2047	(MIN<-->MAX Cyclic Operation)
61	BlockB1		2047	0-2047	(MIN<-->MAX Cyclic Operation)
62	BlockR2		0	0-2047	(MIN<-->MAX Cyclic Operation)
63	BlockG2		0	0-2047	(MIN<-->MAX Cyclic Operation)
64	BlockB2		0	0-2047	(MIN<-->MAX Cyclic Operation)
65	ReverceR		0	0-2047	(MIN<-->MAX Cyclic Operation)
66	ReverceG		0	0-2047	(MIN<-->MAX Cyclic Operation)
67	ReverceB		0	0-2047	(MIN<-->MAX Cyclic Operation)
68	BackCrossR-Cent		0	0-2047	
69	BackCrossR-Start		128	0-255	
70	BackCrossR-End		128	0-255	
71	BackCrossG-Cent		0	0-2047	
72	BackCrossG-Start		128	0-255	
73	BackCrossG-End		128	0-255	
74	BackCrossBR-Cent		0	0-2047	
75	BackCrossB-Start		128	0-255	
76	BackCrossB-End		128	0-255	
77	ColshdSelect		1	0-1	
78	R-Min		230	0-1023	
79	R-Mid2		430	0-1023	
80	R-Mid1		580	0-1023	
81	R-Max		682	0-1023	
82	G-Min		230	0-1023	
83	G-Mid2		430	0-1023	
84	G-Mid1		580	0-1023	
85	G-Max		682	0-1023	
86	B-Min		230	0-1023	
87	B-Mid2		430	0-1023	
88	B-Mid1		580	0-1023	
89	B-Max		682	0-1023	
90	H-OutPos		110	0-2047	
91	OutAreaLv		0	0-1023	
92	FlickerAdj		0	0/2	not used
93	FRC_Bit		3	0-3	
94	FrontCTalkR-Cent		2044	0-2047	
95	FrontCTalkR-Start		129	0-255	
96	FrontCTalkR-End		132	0-255	
97	FrontCTalkG-Cent		2044	0-2047	
98	FrontCTalkG-Start		129	0-255	
99	FrontCTalkG-End		132	0-255	
100	FrontCTalkB-Cent		2044	0-2047	
101	FrontCTalkB-Start		129	0-255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
102	FrontCTalkB-End		132	0-255	
103	R-DCOffset-NGain		0	0-1023	Scan Direction (Front/Rear)
104	R-DCOffset-N1		80/80	0-2047	Scan Direction (Front/Rear)
105	R-DCOffset-N2		0/0	0-2047	Scan Direction (Front/Rear)
106	R-DCOffset-N3		0/0	0-2047	Scan Direction (Front/Rear)
107	R-DCOffset-N4		0/0	0-2047	Scan Direction (Front/Rear)
108	R-DCOffset-N5		0/0	0-2047	Scan Direction (Front/Rear)
109	R-DCOffset-N6		0/0	0-2047	Scan Direction (Front/Rear)
110	R-DCOffset-N7		0/0	0-2047	Scan Direction (Front/Rear)
111	R-DCOffset-N8		0/0	0-2047	Scan Direction (Front/Rear)
112	R-DCOffset-N9		0/0	0-2047	Scan Direction (Front/Rear)
113	R-DCOffset-N10		0/0	0-2047	Scan Direction (Front/Rear)
114	R-DCOffset-N11		0/0	0-2047	Scan Direction (Front/Rear)
115	R-DCOffset-N12		2000/2000	0-2047	Scan Direction (Front/Rear)
116	G-DCOffset-NGain		0/0	0-1023	Scan Direction (Front/Rear)
117	G-DCOffset-N1		80/80	0-2047	Scan Direction (Front/Rear)
118	G-DCOffset-N2		0/0	0-2047	Scan Direction (Front/Rear)
119	G-DCOffset-N3		0/0	0-2047	Scan Direction (Front/Rear)
120	G-DCOffset-N4		0/0	0-2047	Scan Direction (Front/Rear)
121	G-DCOffset-N5		0/0	0-2047	Scan Direction (Front/Rear)
122	G-DCOffset-N6		0/0	0-2047	Scan Direction (Front/Rear)
123	G-DCOffset-N7		0/0	0-2047	Scan Direction (Front/Rear)
124	G-DCOffset-N8		0/0	0-2047	Scan Direction (Front/Rear)
125	G-DCOffset-N9		0/0	0-2047	Scan Direction (Front/Rear)
126	G-DCOffset-N10		0/0	0-2047	Scan Direction (Front/Rear)
127	G-DCOffset-N11		0/0	0-2047	Scan Direction (Front/Rear)
128	G-DCOffset-N12		2000/2000	0-2047	Scan Direction (Front/Rear)
129	B-DCOffset-NGain		0/0	0-1023	Scan Direction (Front/Rear)
130	B-DCOffset-N1		80/80	0-2047	Scan Direction (Front/Rear)
131	B-DCOffset-N2		0/0	0-2047	Scan Direction (Front/Rear)
132	B-DCOffset-N3		0/0	0-2047	Scan Direction (Front/Rear)
133	B-DCOffset-N4		0/0	0-2047	Scan Direction (Front/Rear)
134	B-DCOffset-N5		0/0	0-2047	Scan Direction (Front/Rear)
135	B-DCOffset-N6		0/0	0-2047	Scan Direction (Front/Rear)
136	B-DCOffset-N7		0/0	0-2047	Scan Direction (Front/Rear)
137	B-DCOffset-N8		0/0	0-2047	Scan Direction (Front/Rear)
138	B-DCOffset-N9		0/0	0-2047	Scan Direction (Front/Rear)
139	B-DCOffset-N10		0/0	0-2047	Scan Direction (Front/Rear)
140	B-DCOffset-N11		0/0	0-2047	Scan Direction (Front/Rear)
141	B-DCOffset-N12		2000/2000	0-2047	Scan Direction (Front/Rear)
142	R-DCOffset-PGain		0/0	0-1023	Scan Direction (Front/Rear)
143	R-DCOffset-P1		2010/2010	0-2047	Scan Direction (Front/Rear)
144	R-DCOffset-P2		0/0	0-2047	Scan Direction (Front/Rear)
145	R-DCOffset-P3		0/0	0-2047	Scan Direction (Front/Rear)
146	R-DCOffset-P4		0/0	0-2047	Scan Direction (Front/Rear)
147	R-DCOffset-P5		0/0	0-2047	Scan Direction (Front/Rear)
148	R-DCOffset-P6		0/0	0-2047	Scan Direction (Front/Rear)
149	R-DCOffset-P7		0/0	0-2047	Scan Direction (Front/Rear)
150	R-DCOffset-P8		0/0	0-2047	Scan Direction (Front/Rear)
151	R-DCOffset-P9		0/0	0-2047	Scan Direction (Front/Rear)
152	R-DCOffset-P10		0/0	0-2047	Scan Direction (Front/Rear)
153	R-DCOffset-P11		0/0	0-2047	Scan Direction (Front/Rear)
154	R-DCOffset-P12		50/50	0-2047	Scan Direction (Front/Rear)
155	G-DCOffset-PGain		0/0	0-2013	Scan Direction (Front/Rear)
156	G-DCOffset-P1		2010/2010	0-2047	Scan Direction (Front/Rear)
157	G-DCOffset-P2		0/0	0-2047	Scan Direction (Front/Rear)
158	G-DCOffset-P3		0/0	0-2047	Scan Direction (Front/Rear)
159	G-DCOffset-P4		0/0	0-2047	Scan Direction (Front/Rear)
160	G-DCOffset-P5		0/0	0-2047	Scan Direction (Front/Rear)
161	G-DCOffset-P6		0/0	0-2047	Scan Direction (Front/Rear)
162	G-DCOffset-P7		0/0	0-2047	Scan Direction (Front/Rear)
163	G-DCOffset-P8		0/0	0-2047	Scan Direction (Front/Rear)
164	G-DCOffset-P9		0/0	0-2047	Scan Direction (Front/Rear)
165	G-DCOffset-P10		0/0	0-2047	Scan Direction (Front/Rear)
166	G-DCOffset-P11		0/0	0-2047	Scan Direction (Front/Rear)
167	G-DCOffset-P12		50/50	0-1023	Scan Direction (Front/Rear)
168	B-DCOffset-PGain		0/0	0-1023	Scan Direction (Front/Rear)
169	B-DCOffset-P1		2010/2010	0-2047	Scan Direction (Front/Rear)
170	B-DCOffset-P2		0/0	0-2047	Scan Direction (Front/Rear)

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
171	B-DCOffset-P3		0/0	0-2047	Scan Direction (Front/Rear)
172	B-DCOffset-P4		0/0	0-2047	Scan Direction (Front/Rear)
173	B-DCOffset-P5		0/0	0-2047	Scan Direction (Front/Rear)
174	B-DCOffset-P6		0/0	0-2047	Scan Direction (Front/Rear)
175	B-DCOffset-P7		0/0	0-2047	Scan Direction (Front/Rear)
176	B-DCOffset-P8		0/0	0-2047	Scan Direction (Front/Rear)
177	B-DCOffset-P9		0/0	0-2047	Scan Direction (Front/Rear)
178	B-DCOffset-P10		0/0	0-2047	Scan Direction (Front/Rear)
179	B-DCOffset-P11		0/0	0-2047	Scan Direction (Front/Rear)
180	B-DCOffset-P12		50/50	0-2047	Scan Direction (Front/Rear)
181	ENBX-R		0	0-127	
182	ENBX-G		0	0-127	
183	ENBX-B		0	0-127	
184	DXOutPos		0	0-1	
185	R_V_INPUT_SETP_0		21	0-1023	
186	R_V_INPUT_SETP_512		18	0-1023	
187	R_V_INPUT_SETP_1024		16	0-1023	
188	R_V_INPUT_SETP_1536		10	0-1023	
189	R_V_INPUT_SETP_2048		5	0-1023	
190	R_V_INPUT_SETP_2560		1	0-1023	
191	R_V_INPUT_SETP_3072		1020	0-1023	
192	R_V_INPUT_SETP_3584		1018	0-1023	
193	R_V_INPUT_SETP_4096		0	0-1023	
194	G_V_INPUT_SETP_0		21	0-1023	
195	G_V_INPUT_SETP_512		18	0-1023	
196	G_V_INPUT_SETP_1024		16	0-1023	
197	G_V_INPUT_SETP_1536		10	0-1023	
198	G_V_INPUT_SETP_2048		5	0-1023	
199	G_V_INPUT_SETP_2560		1	0-1023	
200	G_V_INPUT_SETP_3072		1020	0-1023	
201	G_V_INPUT_SETP_3584		1018	0-1023	
202	G_V_INPUT_SETP_4096		0	0-1023	
203	B_V_INPUT_SETP_0		21	0-1023	
204	B_V_INPUT_SETP_512		18	0-1023	
205	B_V_INPUT_SETP_1024		16	0-1023	
206	B_V_INPUT_SETP_1536		10	0-1023	
207	B_V_INPUT_SETP_2048		5	0-1023	
208	B_V_INPUT_SETP_2560		1	0-1023	
209	B_V_INPUT_SETP_3072		1020	0-1023	
210	B_V_INPUT_SETP_3584		1018	0-1023	
211	B_V_INPUT_SETP_4096		0	0-1023	
212	ERPPOL		84	0-4095	
213	FRP_POS		21	0-255	
214	SWAP		5	0-2047	
215	PRE_COLSHD_SEL		0	0-255	
216	HSYNC_FLLOW		1	0-1	
217	DELAY_HSYNC		0	0-2047	
218	DELAY_VSYNC		8	0-255	
219	VSYNC_FOLLOW		0	0-1	
220	BLANK_RCENTER		0	0-2047	
221	BLANK_RSTART		128	0-255	
222	BLANK_REND		128	0-255	
223	BLANK_GCENTER		0	0-2047	
224	BLANK_GSTART		128	0-255	
225	BLANK_GEND		128	0-255	
226	BLANK_BCENTER		0	0-2047	
227	BLANK_BSTART		128	0-255	
228	BLANK_BEND		128	0-255	
229	Output limit R		3359/4092/3359/3359	0-4095	
230	Output limit G		3359/4092/3359/3359	0-4095	
231	Output limit B		3359/4092/3359/3359	0-4095	
232	CROSSTALK_COEF_R		1023	0-1023	
233	CROSSTALK COEF_G		1023	0-1023	
234	CROSSTALK COEF_B		1023	0-1023	
235	LCCON_ENABLE		0	0-1	
236	ENBY_L1		36	0-255	
237	ENBY_H1		822	0-1023	
238	ENBY_L2		46	0-255	
239	ENBY_H2		822	0-1023	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
Group 101	**Panel Service(6150/1060)**				
0	R_LCCOM		305	0-511	
1	G_LCCOM		305	0-511	
2	B-LCCOM		305	0-511	
3	R-LCCOM-Gain		191	0-255	
4	G-LCCOM-Gain		191	0-255	
5	B-LCCOM-Gain		191	0-255	
6	R-LCCOM-Bright		0	0-255	
7	G-LCCOM-Bright		0	0-255	
8	B-LCCOM-Bright		0	0-255	
9	R-LCCOM-Cent		30	0-63	
10	G-LCCOM-Cent		30	0-63	
11	B-LCCOM-Cent		30	0-63	
12	R-ENBX-PW		10	0-127	
13	G-ENBX-PW		10	0-127	
14	B-ENBX-PW		10	0-127	
15	R-DXIN		4	0-255	Link with No.18
16	G-DXIN		4	0-255	Link with No.19
17	B-DXIN		4	0-255	Link with No.20
18	R-CLXIN		4	0-255	Link with No.15
19	G-CLXIN		4	0-255	Link with No.16
20	B-CLXIN		4	0-255	Link with No.17
21	R-ENBX1IN		9	0-255	
22	G-ENBX1IN		9	0-255	
23	B-ENBX1IN		9	0-255	
Group 102	**Auto Keystone Setup Value**				
0	OFFSET		0	-1056 - 1056	
1	OFFSET SWITCH		0	0 - 1	
2	DEBUG MODE		0	0 - 1	
3	SERVICE CALIBRATION		0	0 - 1	
4	LOCK COUNT		5	1 - 255	
5	DELT VERT RESULT		64	1 - 255	
6	ANGLE 1 COUNT		1	1 - 10	
7	ANGLE 2 COUNT		5	1 - 10	
8	BLIND SECTOR 1		160	0 - 1024	
9	BLIND SECTOR 3		32	0 - 1024	
10	BLIND SECTOR BIAS		61	0 - 1024	
Group 103	**Help mode for panle domain**				
0	Help mode on/off		1	0-1	
1	APL threshold value		230	0 - 255	
2	Max value		21	0 - 255	
3	Value per unit time		3	0 - 50	
4	Time per 1step		1	1 - 30	
5	Realtime APL		RO	1 - 255	
Group 200	**Option**				
0	Logo Prohibition (Forced No Brand)	Logo Prohibition (0: Menu, 1: Forced, 2: China, 3-9: not used)	0	0 - 2	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
2	PJLink Enable	PJLink	0	0 - 1	0: Disable 1: Enable
3	Shipping Setting		0	0 - 20	Default set when the value is set to 10
4	CABLE SW	Long Cable	0	0 - 10	0: Disable, 1: Enable
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Eanble) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
20	Projector Time Reset		0	0 - 20	Projector Time is cleared when the value is set to 10
21	Lamp Warning Time (NORMAL)	Lamp Life at Normal Mode (Warning Time at Normal)	-	500 - 8000	
22	Lamp Warning Time (ECO)	Lamp Life at Eco Mode (Warning Time at Eco)	-	500 - 8000	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
23	Lamp Warning Time (HIGH)	Lamp Life at High Mode (Warning Time at High)	-	500 - 8000	
50	Lamp Replacement Display	Lamp Warning Display On / Off	1	0 - 1	1: On, 0: Off
51	Filter Warning Display	Filter Warning Display On / Off	1	0 - 1	1: On, 0: Off
52	Lamp Counter reset Times	Reset Times of Lamp Counter	0	0 - 255	Read only
54	Factory Default Execute Times	Reset times of Fanctory Default	0	0 - 255	Read only
55	Motor Disable	Motors Disable	0	0 - 1	0: On, 1: Off
56	Menu Position	Move menu (X asis)	0	0 - 1024	
57	Menu Position	Move menu (Y asis)	0	0 - 1024	
58	Lamp Go Out		0	0 - 1	
59	Source Search Enable	Source Search Enable (0: Disable 1:Enable)	0	0-1	
60	Language Default Setting	Language Default setting (0: English 1:Japanese)	0	0-1	
61	OSD Aspect HL	OSD display position offset H left	105	0-1024	
62	OSD Aspect HR	OSD display position offset H right	105	0-1024	
63	Screen Aspect VT	OSD display offset V top	45	0-1024	
64	Screen Aspect VB	OSD display offsetr V bottom	45	0-1024	
70	RC Mode	RC moe setting	0-1	0	
Group 201	**Option (signal)**				
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) ~ Panel frequency of input signal
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINVSetting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value
3					
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Dsiable, Used all the Center Values 1:Enable (Service Adjustment Enable)
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoo is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 65535	
10	Sensivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter Center Value	Reference Value	16	0 - 30	
Group 202	**Option (MCI model only)**				
0	Memory Viewer OSD	Memory Viewer OSD Display (1: Yes, 0: No)	1	0 - 1	
Group 210	**LampContorl**				
0	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value	7	0 - 255	
1	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value	14	0 - 255	
2	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value	21	0 - 255	
3	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value	28	0 - 255	
4	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value	35	0 - 255	
5	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value	42	0 - 255	
6	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value	49	0 - 255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
7	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value	56	0-255	
8	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value	63	0-255	
9	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value	70	0-255	
10	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value	77	0 - 255	
11	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value	84	0 - 255	
12	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value	91	0 - 255	
13	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value	98	0 - 255	
14	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value	105	0 - 255	
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer	4	0 - 16	
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer	-	-	* Read only
17	DIMMER_LEVEL_AUTO	Current Dimmer Leverl	-	-	* Read only
18	DIMMER_LEVEL_NORMAL	Normal Dimmer Level	8	0 - 15	
19	DIMMER_LEVEL_ECO	Eco Dimmer Level	0	0 - 15	
20	Lamp check enable		0		0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)
21	VOLTAGE_LEVEL	Lamp Voltage	-		Unit: 8bit(Raw Data) * Read only
22	DIMMER_LEVEL_HIGH	Dimmer level High	15	0 - 15	
Group 231	**VBI Slice Level**				
0	Generic Initial Slicing Level	PW190 register 0xE344	0x34	0-255	
1	Generic High Level Threshold	PW190 register 0xE345	–	0-255	
2	Generic Low Level Threshold	PW190 register 0xE346	–	0-255	
3	Generic Minimum Low Level	PW190 register 0xE347	0x30	0-255	
4	Generic Maximum High Level	PW190 register 0xE348	0xe0	0-255	
Group 250	**FAN Control**				
0	FAN1 MIN ADJUST (DAC)	DAC Output for Fan	14	0 - 255	
1	FAN1 MAX ADJUST (DAC)	Adjust the tolerance of DAC and Fan	223	0 - 255	
2	FAN2 MIN ADJUST (DAC)	Volage.	42	0 - 255	
3	FAN2 MAX ADJUST (DAC)	* Lamp mode is forced Eco	220	0 - 255	
6	Not used				
7	Not used				
Group 251					
	Not used				
Group 252	**Fan Option**				
0	HI-LAND SWITCH	0: Normal, 1: Hi-Land, 2-4: Hi-Land 1-3	0	0 - 5	
1	SAFETY SWITCH	For test purpose	0	0 - 6	
2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0	0 - 3	
3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V)	100	0 - 255	
4	FAN2 MANUAL VOLTAGE	Effective only when Fan Manual	100	0 - 255	
5	FAN3 MANUAL VOLTAGE	switch is 1	-	0 - 255	
6	Not used				

Group 253	Fan Tem Error Setting (Memorized)		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	55	55	47	46	30-100	
6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	60	59	54	53	30-100	
7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	70	69	65	64	30-100	
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial				Range	Note
9	Temp C-A Warning(Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	55	55	47	46	30-100	
11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco(Panel)	60	59	55	54	30-100	
12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco(Panel)	72	71	66	65	30-100	
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
15	Temp A Warning Offset (Temp)	Offset of Temp Error (Temp.) Error Setting Value is increased XC at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	8				0-100	
16	Temp B Warning Offset (Temp)		8				0-100	
17	Temp C Warning Offset (Temp)		8				0-100	
18	Temp B-A Warning Offset (Temp)		8				0-100	
19	Temp C-A Warning Offset (Temp)		8				0-100	
20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes) Error Setting Value is increased X minute at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	3				0-100	
21	Temp B Warning Offset (Time)		3				0-100	
22	Temp C Warning Offset (Time)		3				0-100	
23	Temp B-A Warning Offset (Time)		3				0-100	
24	Temp C-A Warning Offset (Time)		3				0-100	
Group 254	**Fan Control Range Setting (Temp./Voltage)**		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
10	Normal Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Normal	45	45	39	38	20-100	
11	Normal Fan Control Max Temp		49	49	44	43	20-100	
12	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	72	72	115	115	0-255	
13	Normal Fan1 Max		135	135	135	135	0-255	
14	Normal Fan2 Min		80	80	110	110	0-255	
15	Normal Fan2 Max		130	130	132	130	0-255	
20	Eco Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Eco	47	46	39	38	20-100	
21	Eco Fan Control Max Temp		50	49	44	43	20-100	
22	Eco Fan1 Min	Fan voltage value at Eco (unit: 0.1V)	52	52	100	100	0-255	
23	Eco Fan1 Max		115	115	120	120	0-255	
24	Eco Fan2 Min		65	65	75	75	0-255	
25	Eco Fan2 Max		85	85	91	91	0-255	
Group 255	**Fan Start/Cooling Setting**							
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)	70				0-255	
1	Fan2 Initial Volt		70				0-255	
4	Fan1 Cooling Speed	Fan Voltage at Power Off (0.1V)	100				0-255	
5	Fan2 Cooling Speed		100				0-255	
8	Cooling Time L1	Cooling Time stting at Fan Mode L1 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3				1-15	
9	Cooling Time L2	Cooling Time stting at Fan Mode L2 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	4				1-15	
10	Temp Error Cooling Time	Cooling Time setting at Temp Erro (x 30 sec)	4				1-15	
11	OnStart Cooling Start Threshold		38				0-100	
12	After shutdown cooling	Cooling after shutdown (0: No, 1: Yes)	1				0-1	
Group 256	**Fan Lamp Voltage Down Setting**							
0	Lamp Voltage	Current Lamp Voltage (0.1V)(Read only)	-				0-255	
1	Lamp Vol Threshold	Threshold to judge Lamp Voltage Down (V×10)	0				30-90	
2	Fan1 Speed Gain	Additional Fan Speed of Min at Lamp Voltage Down (unit: 0.1V)	10				0-255	
3	Fan2 Speed Gain		10				0-255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
Group 257	**Fan Dimmer Setting**				
0	Dimmer Average Chech Period	Dimmer Average measurement Time (0:10sec. 1:30sec. 2:60 sec. 90: sec...10:30sec.)	1	0-10	
1	Dimmer Average	Dimmer Average Value (Read only)	-		
2	Last Voltage Difference		-		
3	Voltage Difference Goal		-		
Group 258	**FAN network mode IC Temp.**				
0	Standby Cooling Check Cycle	Standby Cooling Check Cycle	5	-	
1	Standy Cooling Start Threshold	Standy Cooling Start Threshold	55	-	
2	Standby Cooling Enable	Standby Cooling Enable	1	-	
Group 260	**Auto Calibration(Common)*Auto Calibration**				
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changiing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	10	1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0	0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	1	1 - 20	
4	CHECK -Tolelance	Torelance of OFFSET	2	1 - 255	
Group 261	**Auto Calibration (RGB)**				
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	3	0 - 127	
7	OFFSET torelance	Torelance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Torelance of White Level Adj.	1	1 - 255	
Group 262	**Auto Calibration (CVBS/SVIDEO)**				
0	Y Image Area Start X	Y Acquiring Area H-Start Position	20	0 - 1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	200	0 - 1000	
6	Image Area H Width	Image Level Acquiring Area	8	0 - 4095	
7	Image Area V Hight	Image Level Acquiring Area Height	9	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	217	0 - 255	
11	Gain Tolerance	Torelance of Level Adj.	1	0 - 255	
12	Delta Gain	Deviation Width of Gain Value	9	0 - 255	
Group 264	**Auto Calibration (YCbCr)**				
0	Y-OFFSET AREA H START	Y - Offset Acquiring Area H-Start Position	925	0 - 1000	
1	Y-OFFSET AREA V START	Y - Offset Acquiring Area V-Start Position	500	0 - 1000	
2	CB - OFFSET AREA H START	CB - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
3	CB - OFFSET AREA V START	CB - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
4	CR - OFFSET AREA H START	CR - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
5	CR - OFFSET AREA V START	CR - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
6	Y - GAIN AREA H START	Y	50	0 - 1000	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
7	Y - GAIN AREA V START		500	0 - 1000	
8	CB - GAIN AREA H START		800	0 - 1000	
9	CB - GAIN AREA V START		500	0 - 1000	
10	CR - GAIN AREA H START		700	0 - 1000	
11	CR - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	8	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	0 - 255	
15	CB OFFSET TARGET		128	0 - 255	
16	CR OFFSET TARGET		128	0-255	
17	Y-GAIN TARGET		217	0-255	
18	CB-GAINTARGET		237	0-255	
19	CR-GAINTARGET		237	0-255	
20	OFFSET torelance	Torelance of OFFSET Adj.	1	1-255	
21	GAIN torelance	Torelance of GAIN Adj.	1	1-255	
Group 280	**AutoPC Adjust**				
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Unsupported Signal Input	0	0-1	0:Enabel, 1:Disable
1	Frequency Step	Frequency Steps of Total Dot	1	0-3	
2	Frequency Threshold	Total Dot Freqency Threshold	5	0-10	0[]<-- - --> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0-1	0;Excutes Fine Phase; 1:Not Excute
4	BLKDET	Black Level Detection Area	1	0 - 3	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 290	**PanelType * Panel Type Check**				
0	GammaL/R-View	Current Setting Check	0	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1	GammaL/R-Change	Setting of Gamma	10	0-20	Sets L-Turn Gamma if the Value is set to 0. Sets R-Turn Gamma if the Value is set to 20.
Group 500	**Composite (NTSC) Composite / S-Video**				
0					
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		18	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 501	**Composite (PAL) Composite / S-Video**				
0					
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		34	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 502	**Composite (SECAM) Composite / S-Video**				
0					
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 510	**SCART(480i)**				
0					
1	Disp Dots		662	0 ~ 4095	
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		456	0 ~ 4095	
Group 511	**SCART (575i)**				
0					
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		162	0 ~ 4095	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
3	V Back Porch		64	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
Group 520	**YCbCr (480i)**				
0	Total Dots		858	0 ~ 4095	
1	Disp Dots		670	0 ~ 4095	
2	H Back Porch		146	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 521	**YCbCr (575i)**				
0	Total Dots		864	0~4095	
1	Disp Dots		656	0~4095	
2	H Back Porch		162	0~4095	
3	V Back Porch		64	0~4095	
4	Disp Line		534	0~4095	
Group 522	**YCbCr (480P)**				
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		136	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 523	**YCbCr (575P)**				
0	Total Dots		864	0 ~ 4095	* Read only
1	Disp Dots		690	0 ~ 4095	
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		550	0 ~ 4095	
Group 524	**YCbCr (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		306	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 525	**YCbCr (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		338	0 ~ 4095	
3	V Back Porch		36	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 526	**YCbCr (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		248	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 527	**YCbCr (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	* Read only
1	Disp Dots		1870	0 ~ 4095	
2	H Back Porch		250	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 528	**YCbCr (1035i)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		248	0 ~ 4095	

Electrical Adjustments

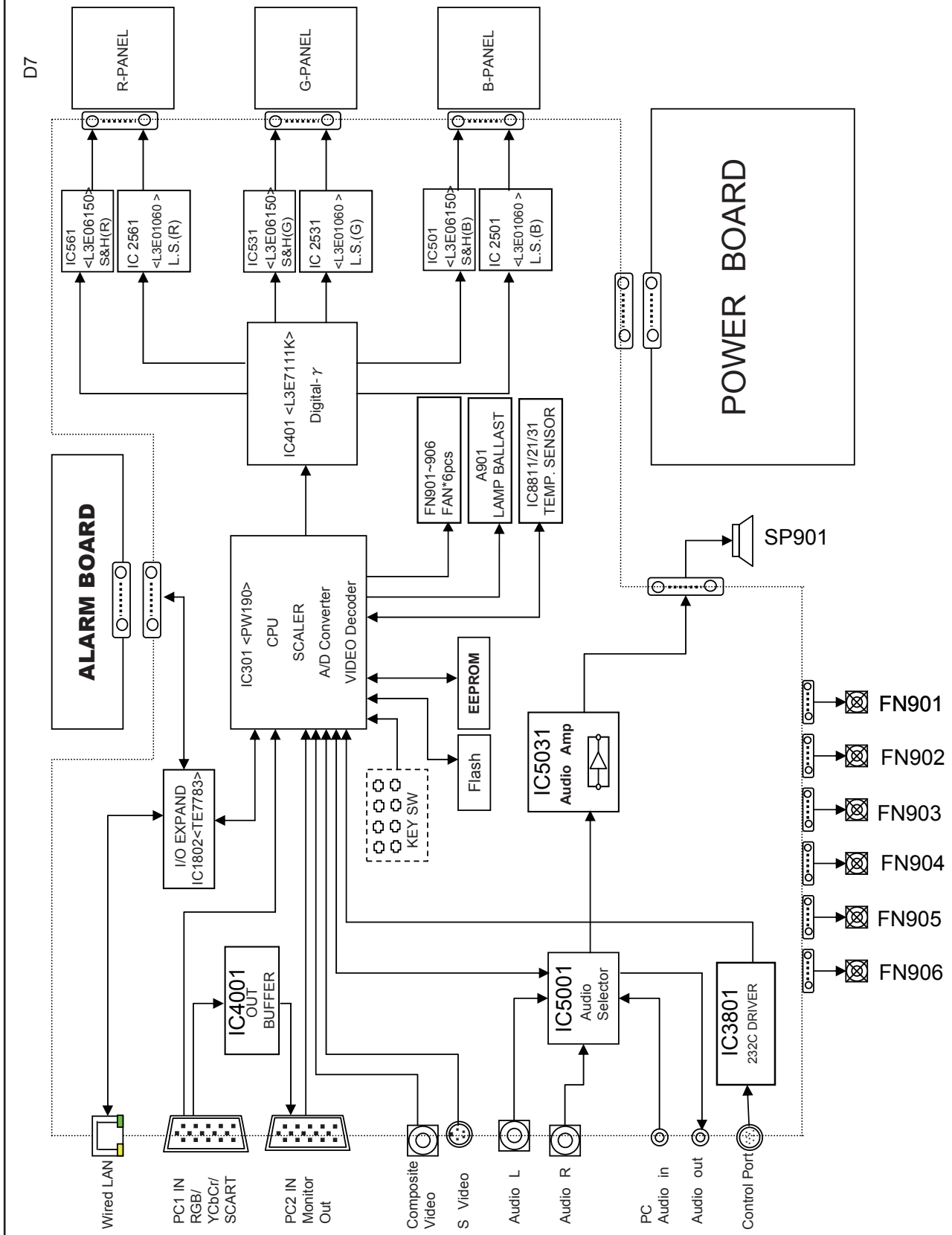
Group/ Item	Item Name	Function	Initial	Range	Note
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 540	**RGB Video (480i)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		752	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 541	**RGB Video (575i)**				
0	Total Dots		966	0 ~ 4095	
1	Disp Dots		736	0 ~ 4095	
2	H Back Porch		182	0 ~ 4095	
3	V Back Porch		66	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 542	**RGB Video (480P)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		766	0 ~ 4095	
2	H Back Porch		156	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 543	**RGB Video (575P)**				
0	Total Dots		986	0 ~ 4095	
1	Disp Dots		774	0 ~ 4095	
2	H Back Porch		174	0 ~ 4095	
3	V Back Porch		62	0 ~ 4095	
4	Disp Line		540	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 544	**RGB Video (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 545	**RGB Video (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	
1	Disp Dots		1246	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 546	**RGB Video (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		254	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	

Electrical Adjustments

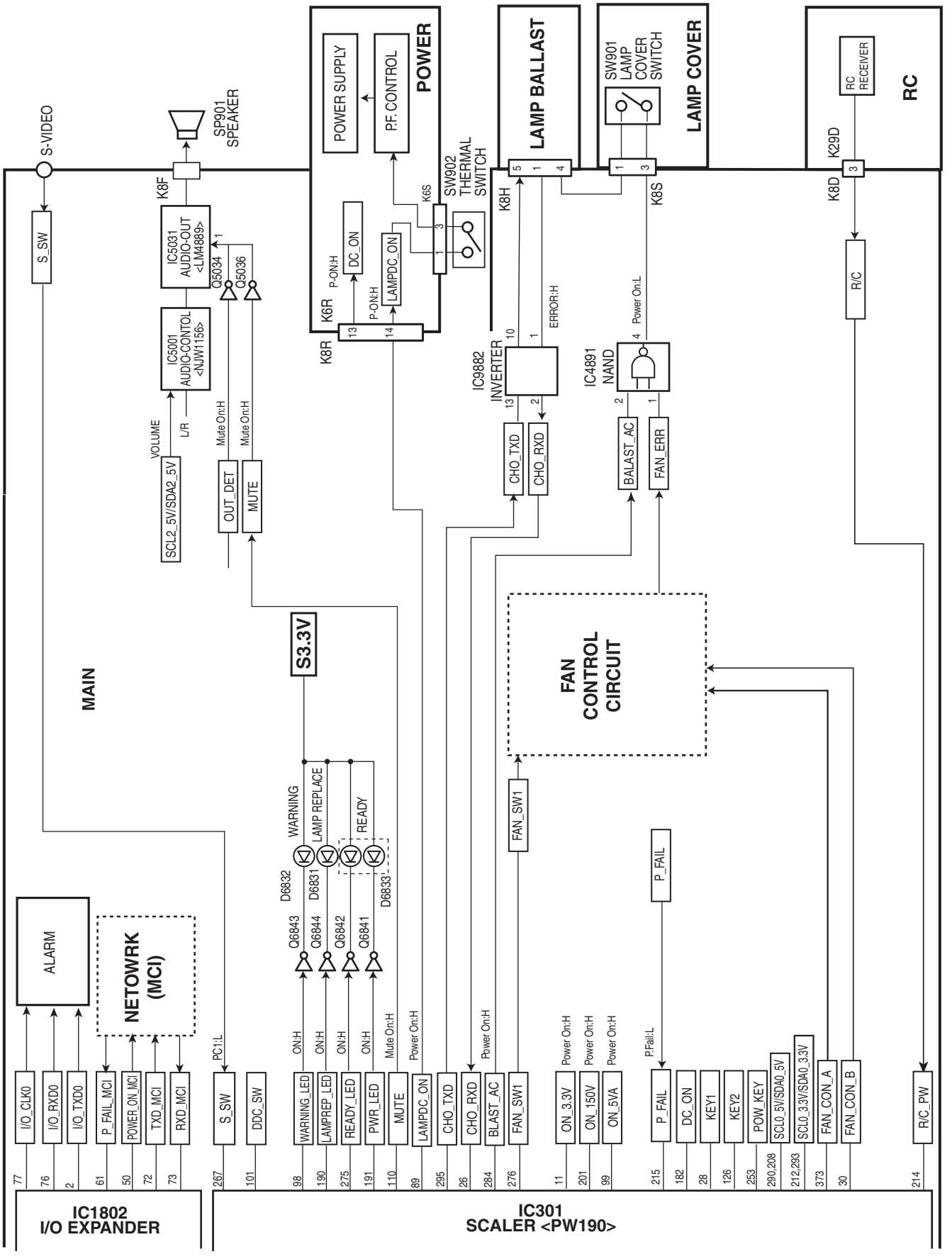
Group/ Item	Item Name	Function	Initial	Range	Note
Group 547	**RGB Video (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 548	**RGB Video (1035i)**				
0	Total Dots		2200	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 560	**HDCP (480P)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 561	**HDCP (575P)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 562	**HDCP (720P-60)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)		0 - 255	
8	VSBEG		2	0 - 15	
Group 563	**HDCP (720P-50)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 564	**HDCP (1080i-60)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 565	**HDCP (1080i-50)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 566	**HDCP (1035i)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 981	**Color Shading Adj Offset**				
0	R-Max		0/0	0-255	
1	R-Mid1		0/0	0-255	
2	R-Mid2		0/0	0-255	
3	R-Min		0/0	0-255	
4	G-Max		0/0	0-255	
5	G-Mid1		0/0	0-255	
6	G-Mid2		0/0	0-255	
7	G-Min		0/0	0-255	
8	B-Max		0/0	0-255	
9	B-Mid1		0/0	0-255	
10	B-Mid2		0/0	0-255	
11	B-Min		0/0	0-255	

Chassis Block Diagrams

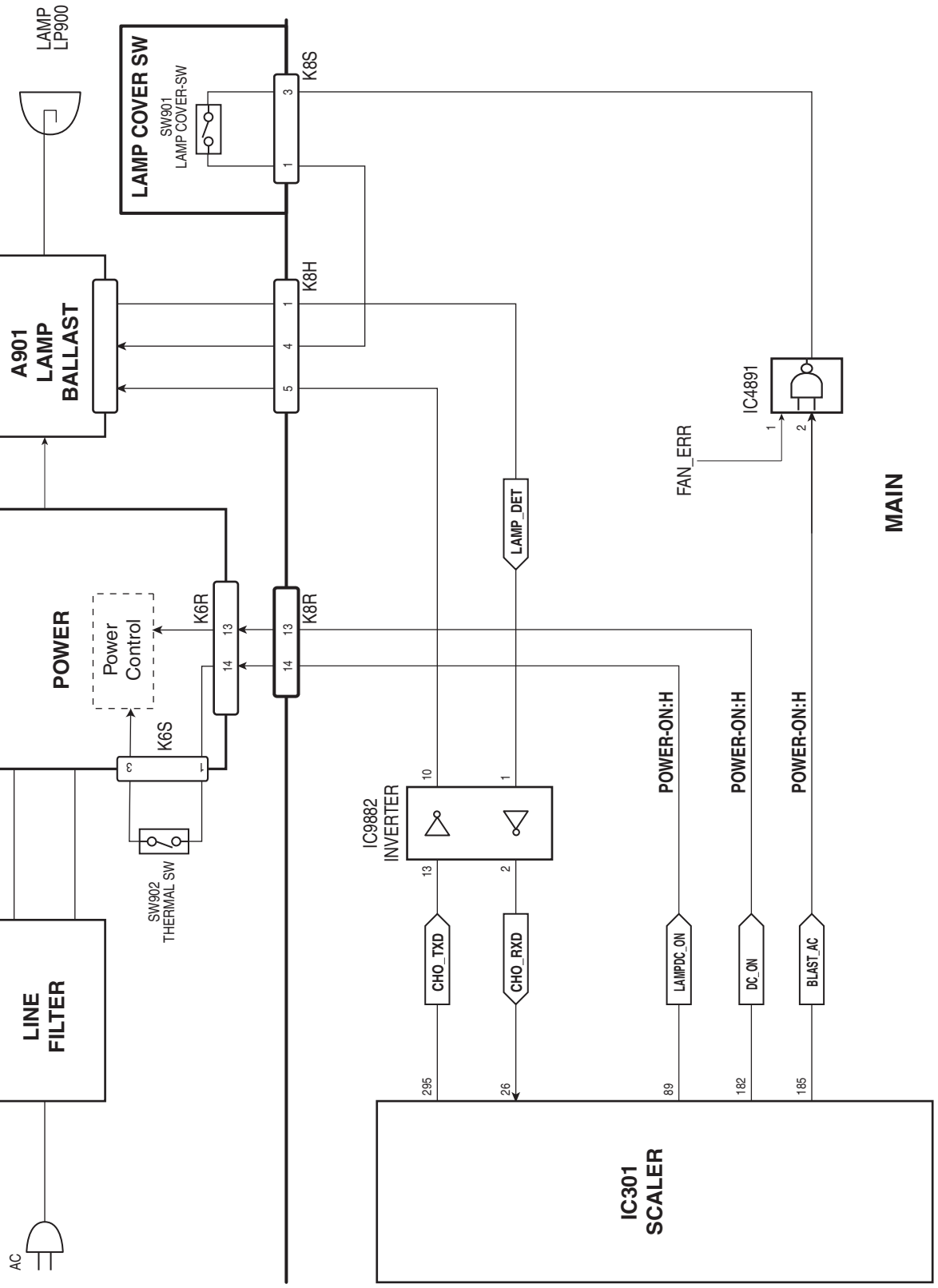
Chassis over view



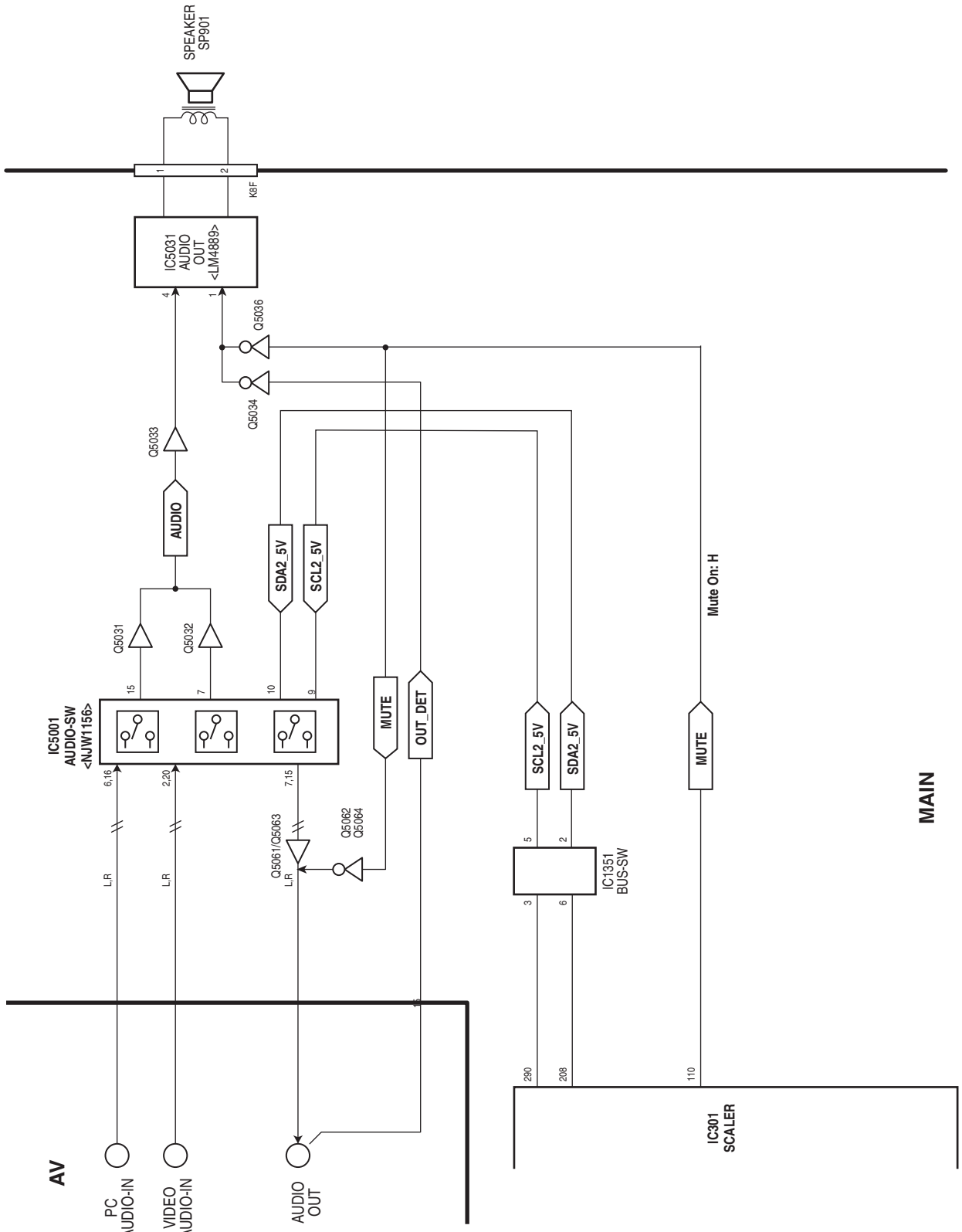
System control



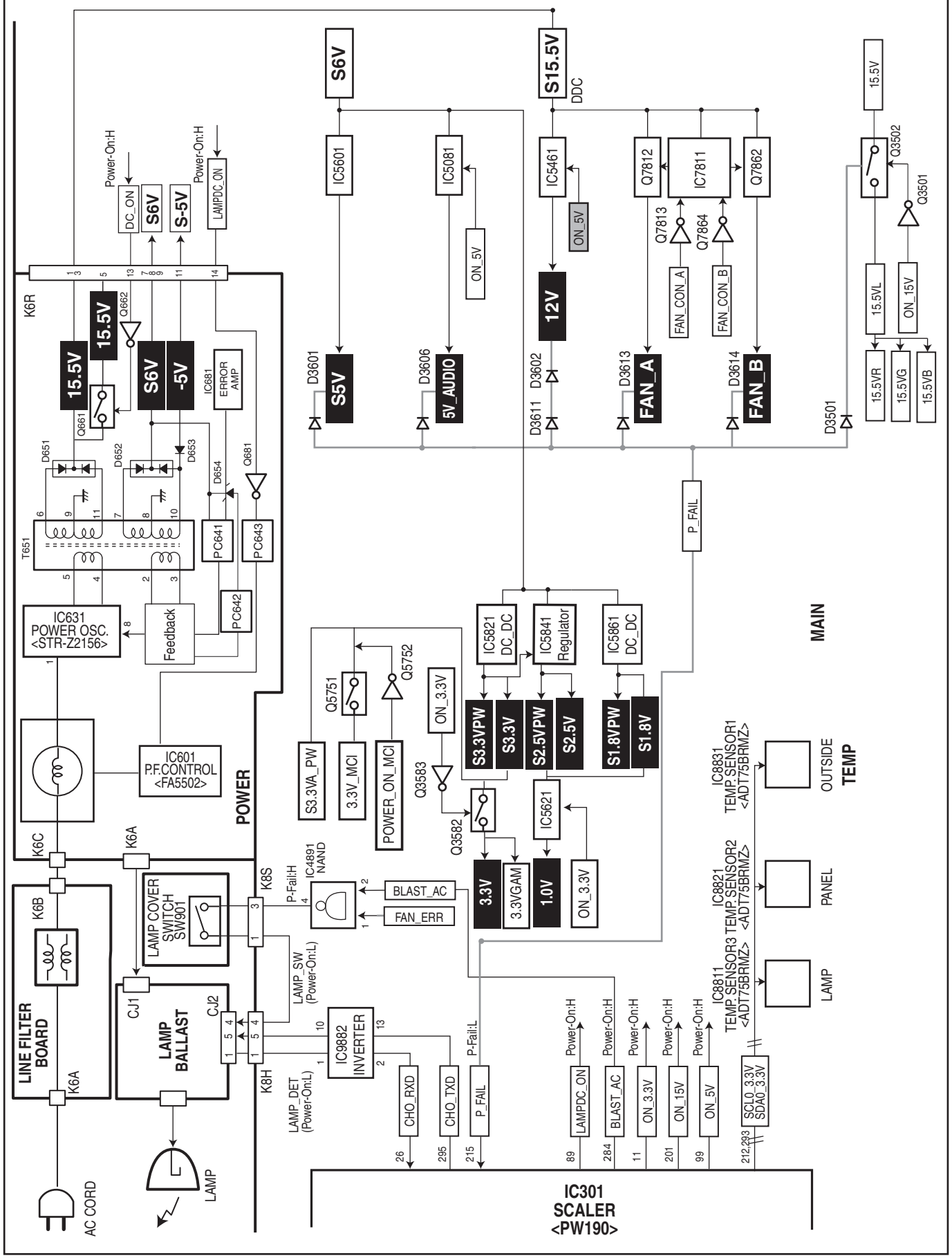
Lamp control



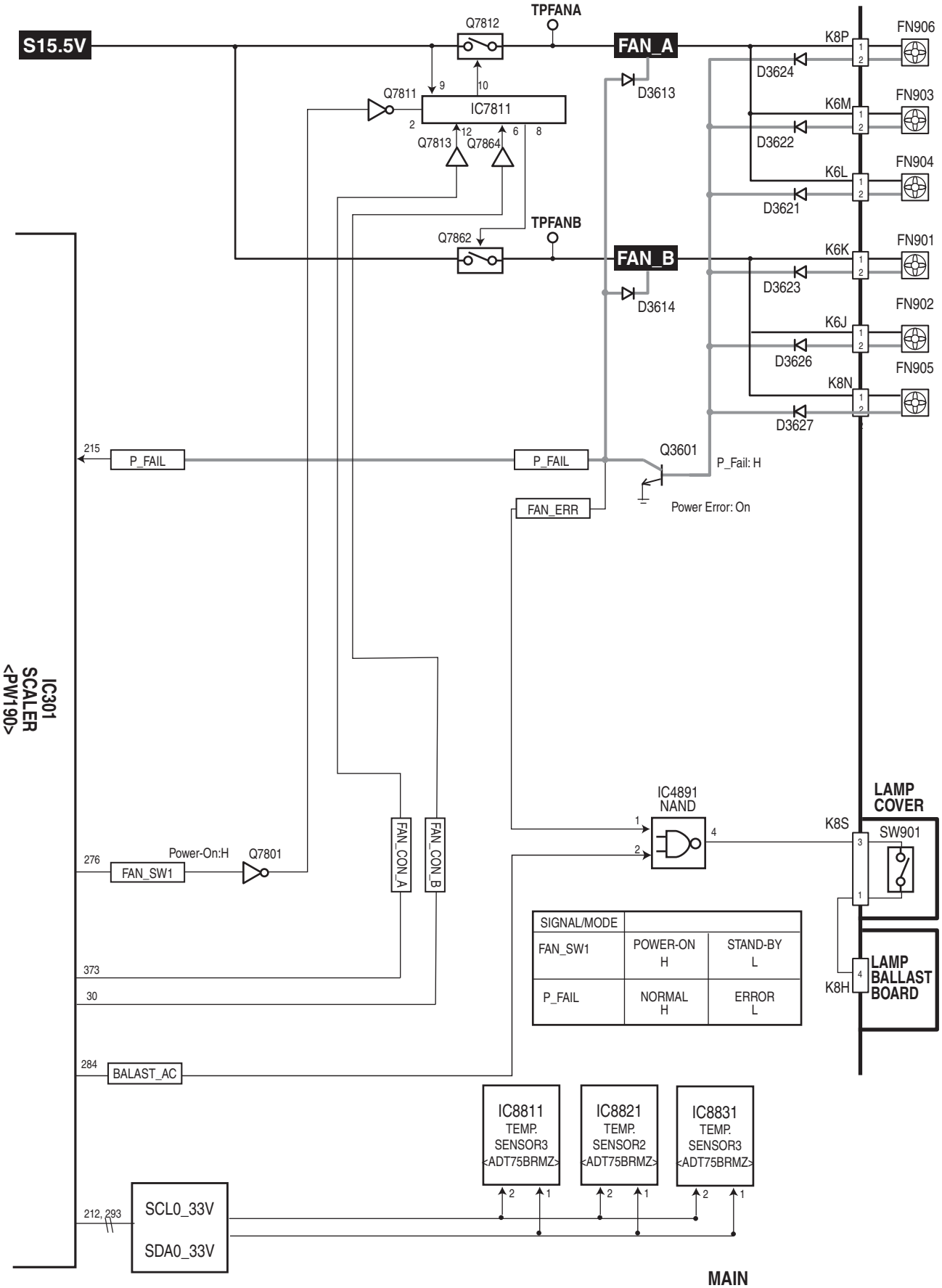
Audio circuit



Power supply & protection circuit

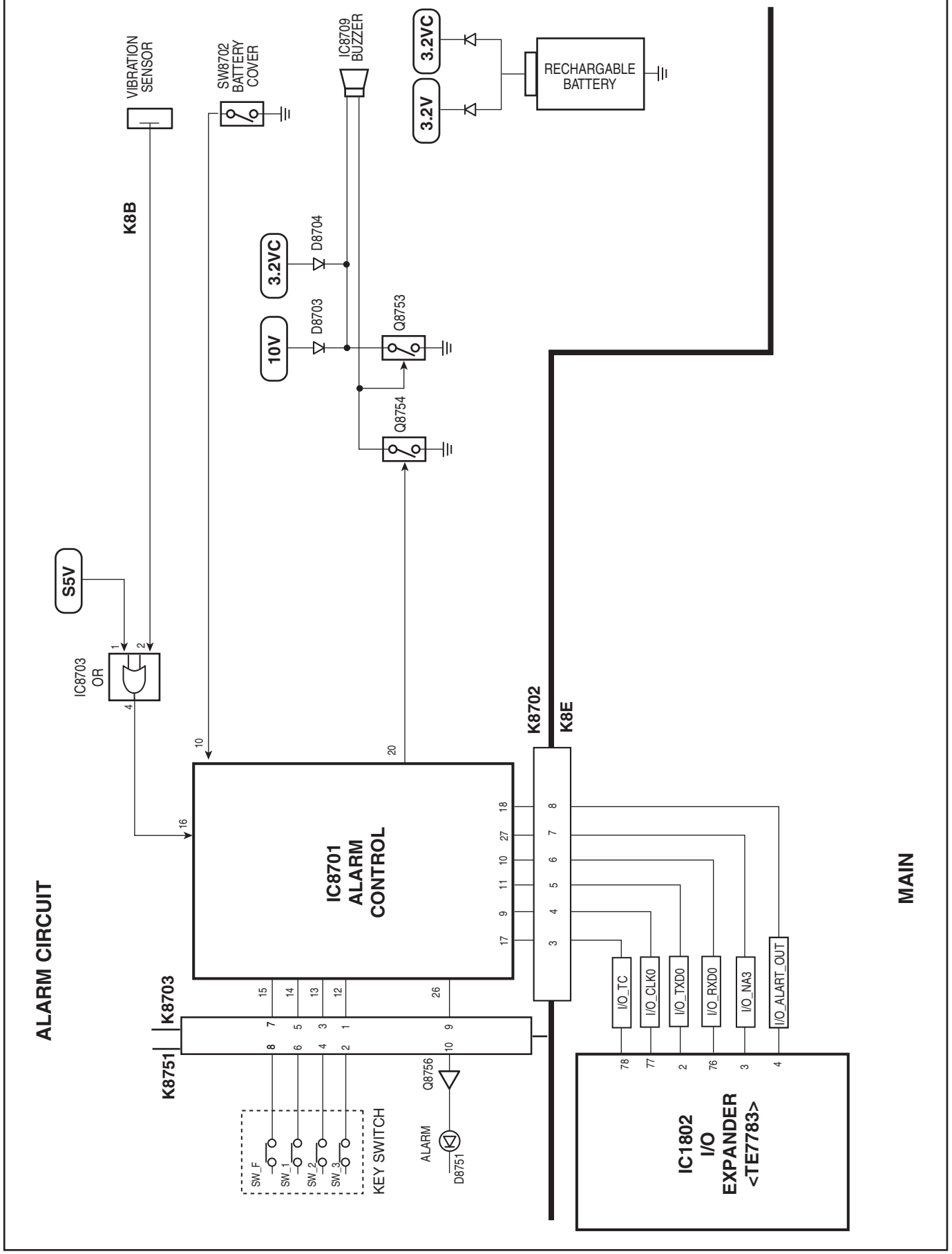


Fan control circuit

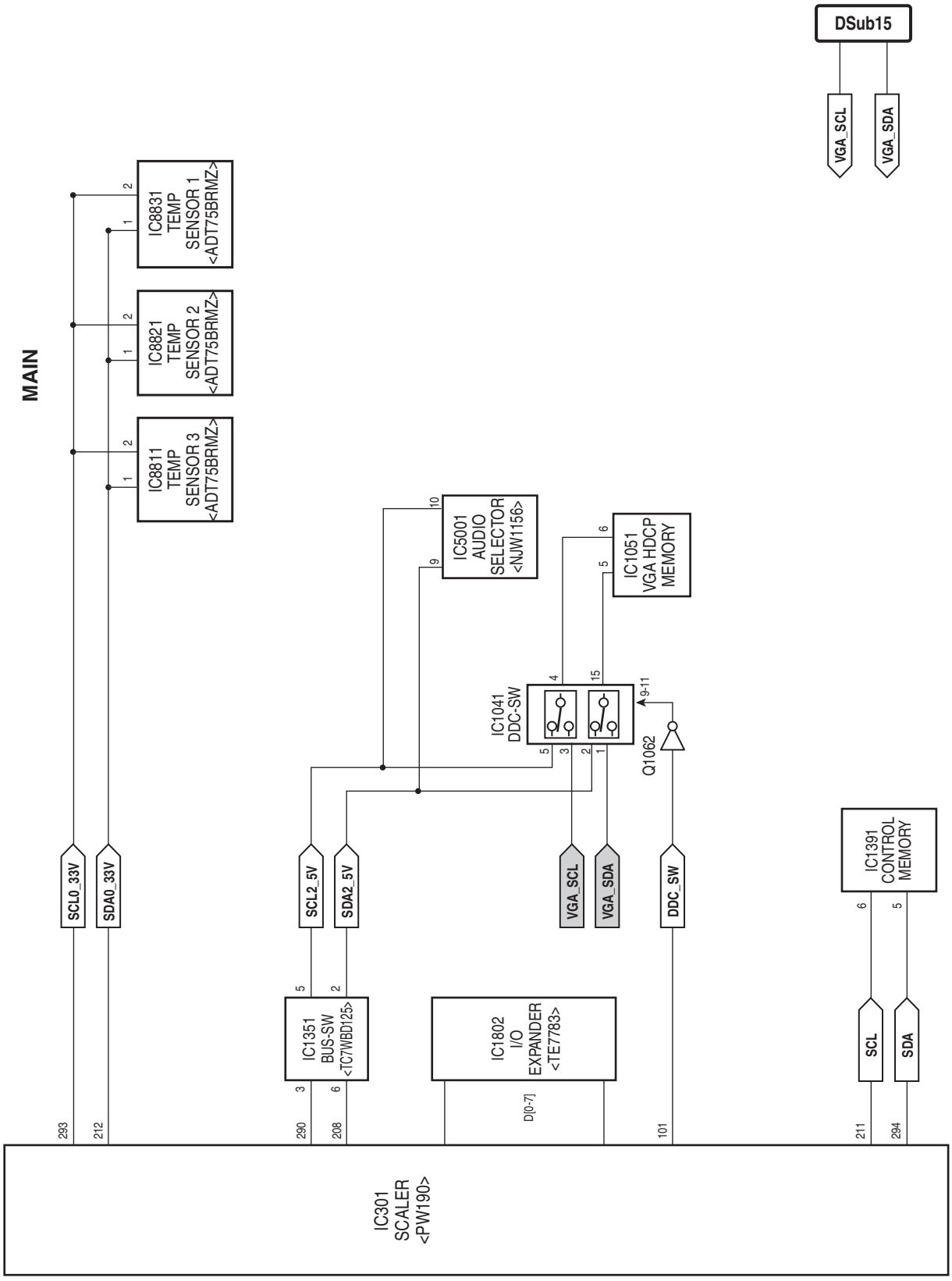


SIGNAL/MODE		
FAN_SW1	POWER-ON H	STAND-BY L
P_FAIL	NORMAL H	ERROR L

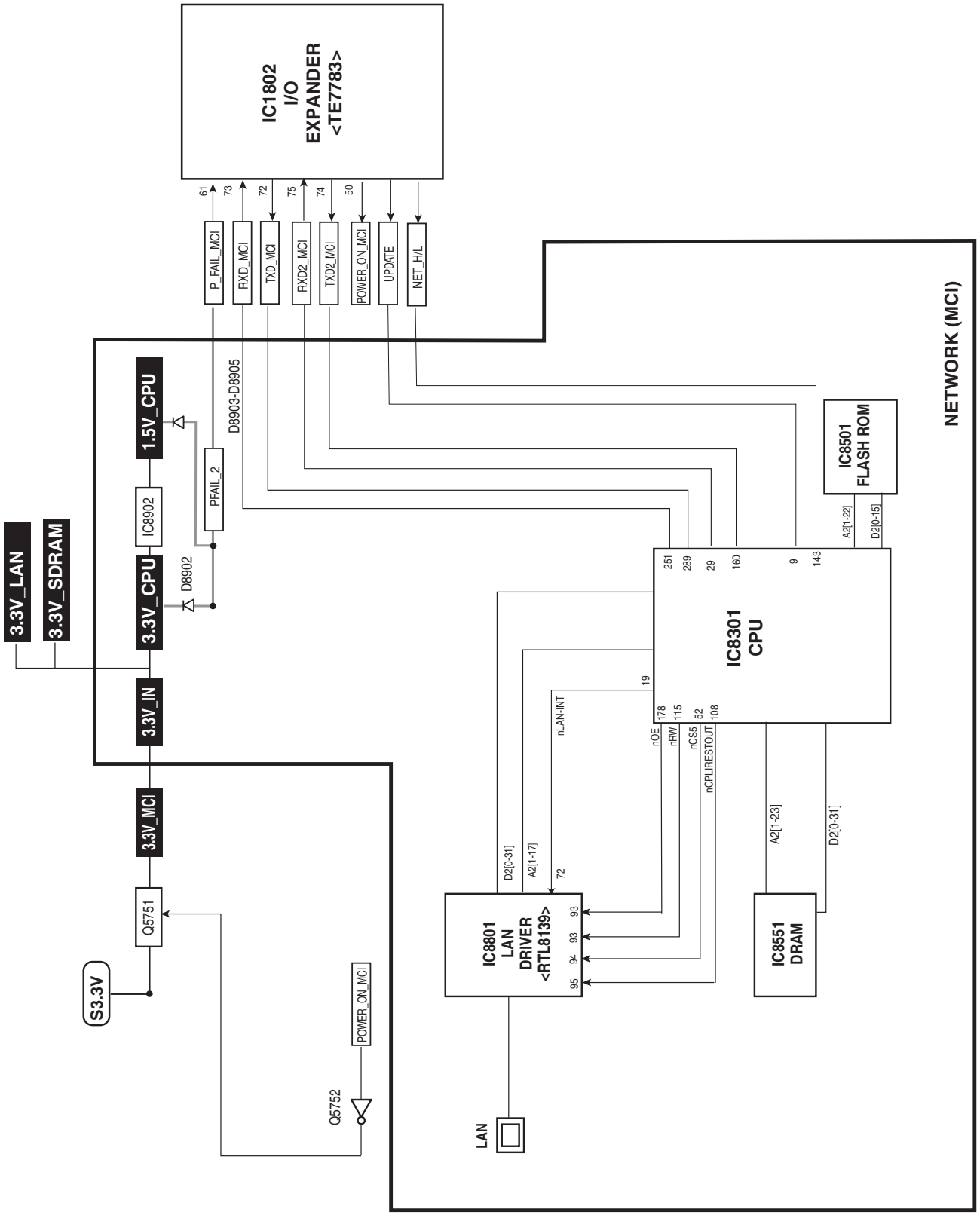
Alarm circuit



IIC bus control circuit



Network circuit



Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER red/green	WARNING red	LAMP REPLACE yellow	
●	●	●	The projector is off. (The AC power cord is unplugged.)
◍ blinks	●	✱	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.
◍	●	✱	The projector is ready to be turned on with the POWER ON/STAND-BY button.
○	●	✱	The projector is operating normally.
○ blinks	●	✱	The projector is in the Power management mode.
◍ blinks	◍ blinks	✱	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator lights red and the projector can be turned on. (The WARNING indicator keeps blinking.)
◍	◍ blinks	✱	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filters.
●	◍	✱	The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause an electric shock or a fire hazard.

○ • • • green. ◍ • • • red ● • • • off

○ blinks • • • blinks green. ◍ blinks • • • blinks red.

✱ When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication.

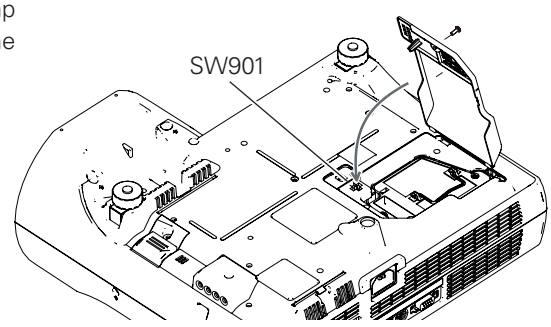
- **When all of LED indicators are not lighting**, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;
  AC cord, F601 (Fuse), Power board,
  SW902 (Thermal sw.) short in normal
  SW902 opens when the surrounding temperature of the switch exceeds 105°C.

- **When the WARNING (red) and POWER(red) indicators are flashing**, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.
  The internal temperature is monitored by sensor ICs, IC8811(Lamp), IC8821 (Panel) and IC8831 (Room) on the Main board

- **When the WARNING indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.
  The P_FAIL signal (Error: L) is sent to pin 215 of IC301<SCALER> when the abnormality occurs inside the projector, and then the IC301 sends the shutdown signal, LAMPDC_ON, to the power supply circuit to stop its operation, and signal BALAST_AC to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.
  An abnormality occurs on the secondary power supply;
  Check power supplies S15.5V, 15.5V, S6V, S-5V. P_FAIL signal becomes "Low" when the abnormality occurs on any of the power supply lines.
  An abnormality occurs on the fan control circuit;
  Check FN901, FN902, FN903, FN904, FN905, FN906 and peripheral circuit.
  If any of the fans has an error, the fan lock signal drives Q3601 becomes on. As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.
  An abnormality occurs on the drive signals;
  ON_15V signal (Power-on: H) is output from pin 201 of IC301 and switches Q3502,15.5V supply circuit. ON_5V signal (Power-on: H) is output from pin 99 of IC301 and switches IC5461, 12V supply circuit and switches IC5081, 5V_AUDIO supply circuit. ON_3.3V signal (Power-on: H) is output from pin 11 of IC301 and switches Q3582, 3.3VGAM supply circuit and IC5621, 1.0V supply circuit.
  LAMPDC_ON signal (Power-on: H) is output from pin 89 of IC301 and supplied to the P.F Control IC, IC621, on the power supply board through Q651, and PC643.
  BALAST_AC signal (Power-on: H) is output from pin 284 of IC301 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through SW901<Lamp Cover SW>.
  CHO_RXD signal at pin 26 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, LAMP_DET/CHO_RXD signal becomes "High" and then IC301 shuts down the power supply circuit.

Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



No Picture

Check following steps.

No picture with all of input sources

Yes →

Check signal processing stage and LCD driving stage;
Check RGB S&H signals at test points TP_B1, TP_G1, TP_R1.
Check power supply circuit 15.5V and peripheral circuit.
Check ICs IC501, IC531, IC561, IC2501, IC2531, IC2561, IC401, IC301 and peripheral circuits.

No ↓

No picture with PC1 input source only

Yes →

Check RGB signals on PC1.
R signal is applied to pin 82 of IC301<System Control>, G signal is applied to pin 260 and B signal is applied to pin 258 of IC 301.
HV sync signals are applied to pins 331 and 161 of IC301<System Control> as the HS and VS signals.

No ↓

No picture with PC2 input source only

Yes →

Check RGB signals on PC2.
R2 signal is applied to pin 172 of IC301<System Control>, G2 signal is applied to pin 78 and B2 signal is applied to pin 256 of IC 301.
HV sync signals are applied to pins 253 and 66 of IC301<System Control> as the HS2 and VS2 signals.

No ↓

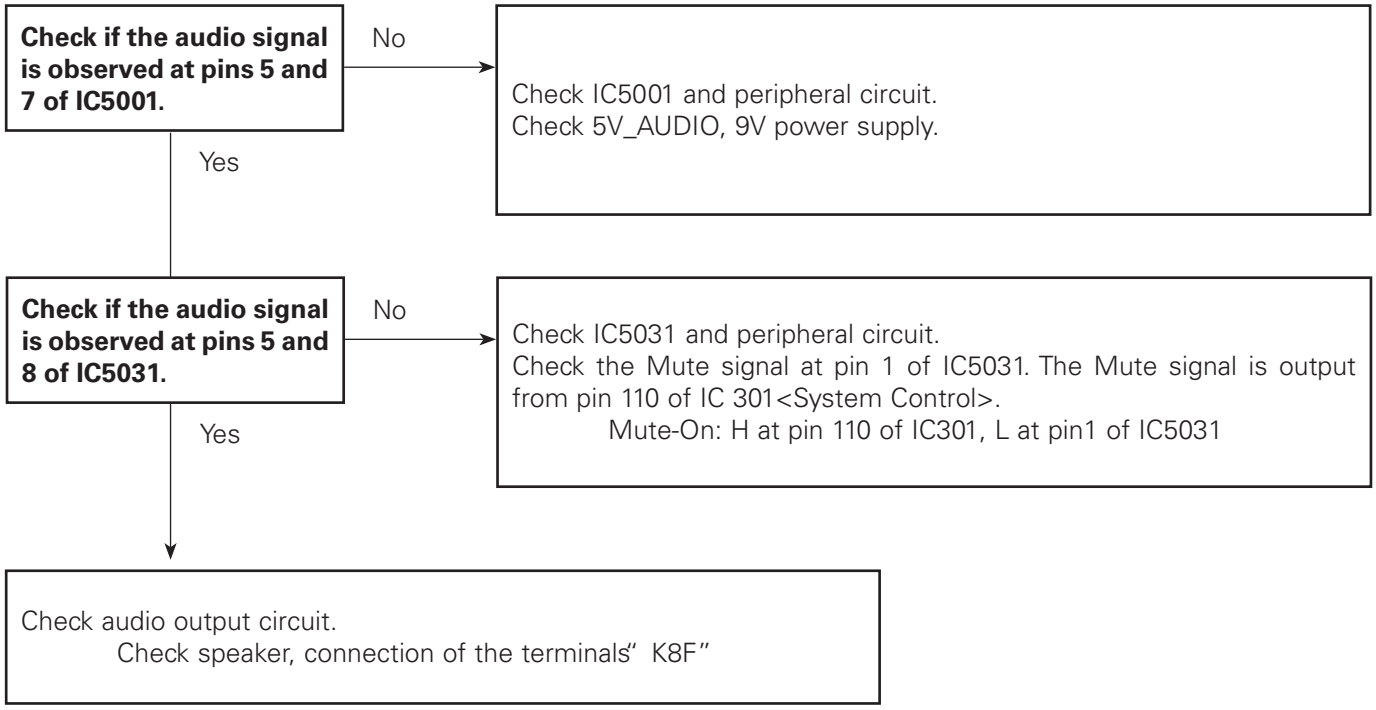
No picture with video input sources

Yes →

Check AV Source Selecting and decoding state;
S-Video source
Check S-video signal (Y/C).
S_C signal is applied to pin 265 of IC301<System Control>, and S_Y signal is applied on pin 264 of IC301.
S-SW signal (S-Video:L) is input to pin 267 of IC301<System Control>.
Composite video source
Check composite video signal (Video).
The composite video signal is applied to pin 262 of IC301<System Control>.

No Sound

Check following steps.


Check if the audio signal is observed at pins 5 and 7 of IC5001.
No
Check IC5001 and peripheral circuit.
Check 5V_AUDIO, 9V power supply.
Yes
Check if the audio signal is observed at pins 5 and 8 of IC5031.
No
Check IC5031 and peripheral circuit.
Check the Mute signal at pin 1 of IC5031. The Mute signal is output from pin 110 of IC 301<System Control>.
Mute-On: H at pin 110 of IC301, L at pin1 of IC5031
Yes
Check audio output circuit.
Check speaker, connection of the terminals" K8F"

Control Port Functions

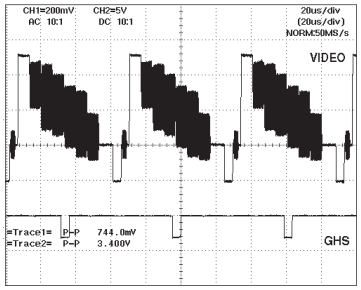
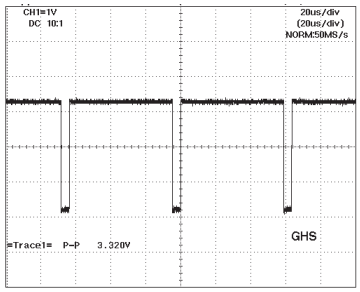
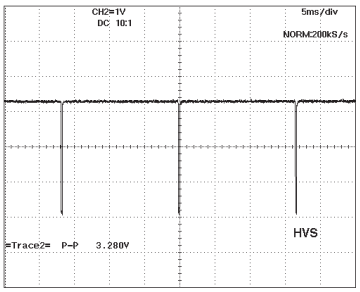
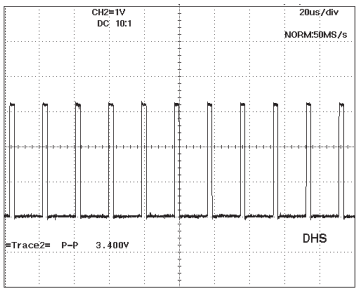
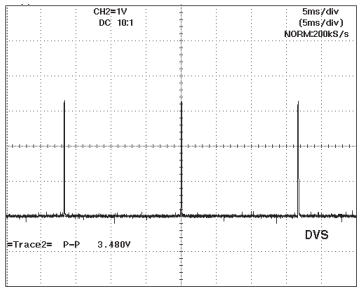
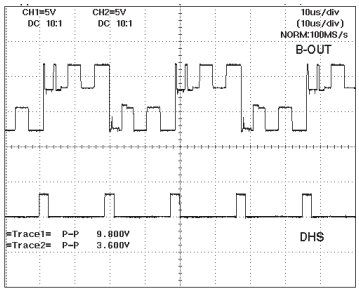
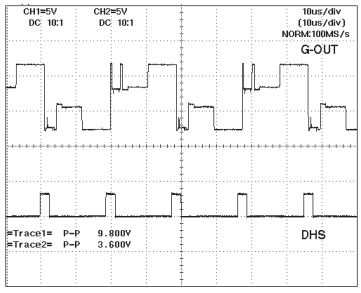
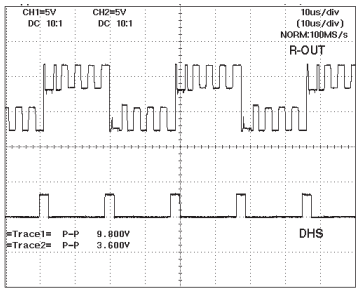
Scaler I/O Port Functions (PW190)

PIN NO.	PORT NO.	PORT NAME	FUNCTION	SIGNAL NAME	DESCRIPTION	I/O
11	A11	PORTC5		ON_33V	3.3V Power Drive, Power On: H	O
101	B2	PORTD6	DDC_SW	DDC_SW	DDC_SW	O
110	B11	PORTC6		MUTE	Sound Mute Drive, Mute On:H	O
111	B12	PORTC1		SCS_PW	3-Wired Serial Control	O
124	B25	TXD_PW		TXD_PW	Serial Control TXD	O
3	C1	PORTE3		ON_50V	5V Power Drive, Power On:H	O
201	C11	PORTC7		ON_150V	15V Power Driver, Power On: H	O
202	C12	PORTC2		SDATA_PW	3-Wired Serial Control Data	O
208	C18	PORTH5	2-Wire Serial Data 2	SDA2	IIC Bus Control Data	O
211	C21	PORTH2	2-Wire Serial Clock 1	SCL1	IIC Bus Control Clock	O
212	C22	TWOWSD0	2-Wire Serial Data 0	SDA0	IIC Bus Control Data	O
28	C26	ADC1	ADC1	KEY1	Key Control Input	I
32	D1	PORTE6		TEMP_LED	TEMP LED Drive, On:H	O
31	D2	PORTE4		POWER_LED	POWER LED Drive, On: H	O
30	D3	PORTE1		FAN_SW1	Fan Control Switch 1	O
284	D11	PWM1		BLAST_AC	Lamp Control, Lamp Om: H	O
285	D12	PORTC3		LAMP_DET	Lamp Detect	I
290	D17	PORTH4	2-Wire Serial Clock 2	SCL2	IIC Bus Control Clock	O
293	D20	PORTH6		SCL0	IIC Bus Control Clock	O
294	D21	PORTH3	2-Wire Serial Data 1	SDA1	IIC Bus Control Data	O
215	D24	ADC0	ADC0	P_FAIL	Power Failure Signal Input, Failure:L	I
126	D25	ADC2	ADC2	KEY2	Key Control Input	I
180	E2	PORTE7		LAMP_LED	Lamp LED Drive. On: H	O
275	E3	PORTE5		READY_LED	READY LED Drive, On: H	O
353	E5	PORTE0		Power_KEY		O
362	E14	PORTC4		IRM_RST		O
363	E15	PORTC0		FAN_SW2	Fan Control Switch-2	O
368	E20	RXD_PW		RXD_PW	Serial Control RXD	I
127	E25	ADC7	ADC7	LENS Option	Option Switch LENS	I
30	E26	DAC1	DAC1	FAN_CON_B	Fan B Voltage Control	O
298	F23	ADC4	ADC4	BRAND Option	Option Switch BRAND	I
373	H22	DAC0	DAC0	FAN_CON_A	Fan A Voltage Control	O
90	M1	PORTA0		XSTDBYEN	for I/O Expander	O
183	M2	PORTA1		XRESET	fro I/O Expander	O
89	N1	PORTA3		LAMPDC_ON	Power Control, Power On: H	O
192	N2	PORTA5		CABLE_SW	Cable Switch Output SCART: Hi	O
267	N3	PORTA6		S_SW	S-Video Input Switch	I
232	N4	PORTA7		MONITOR_OUT	Monitor Out	O
413	N5	PORTA4		SRDATA_PW	3-wired Serial Control Data	O
474	N6	PORTA2		WAKEUP	for I/O Expander	O

I/O Expander Port Functions (TE7783)

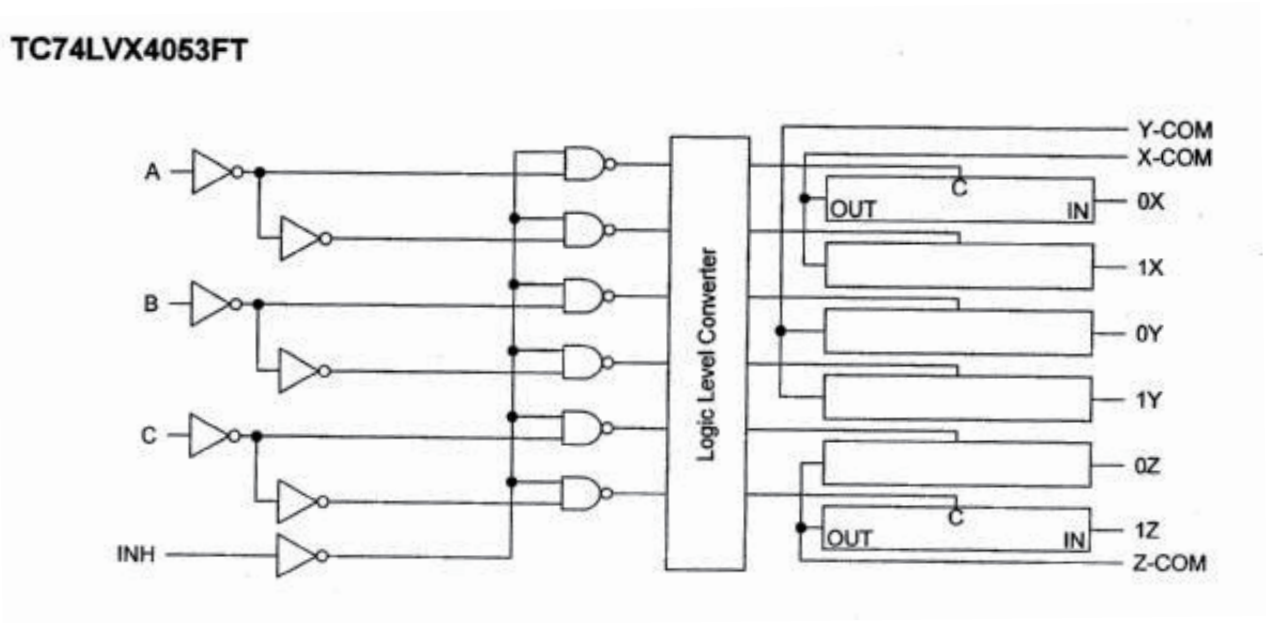
PIN NO.	NAME	FUNCTION	ACTION	I/O
2	P1	I/O_TXD0	For Alarm	O
3	P2	I/O_AN3	For Alarm	I
4	P3	I/O_ALART_OUT	For Alarm	I
5	P4	LEDN		I
50	P23	POWER_ON_MCI	H: MCI ON	O
61	AIN1	P_FAIL_MCI		I
72	P31	TXD_MCI	For MCI	O
73	P32	RXD_MCI	For MCI	I
74	P33	TXD2_MCI	For MCI	I
75	P34	RXD2_MCI	For MCI	O
76	P35	I/O_RXD0	For Alarm	O
77	P36	I/O_CLK0	For Alarm	O
78	P37	I/O_TC	For Alarm	
79	P38	UPDATE	For Update	O
97	P15	NET_H/L		O

Waveform

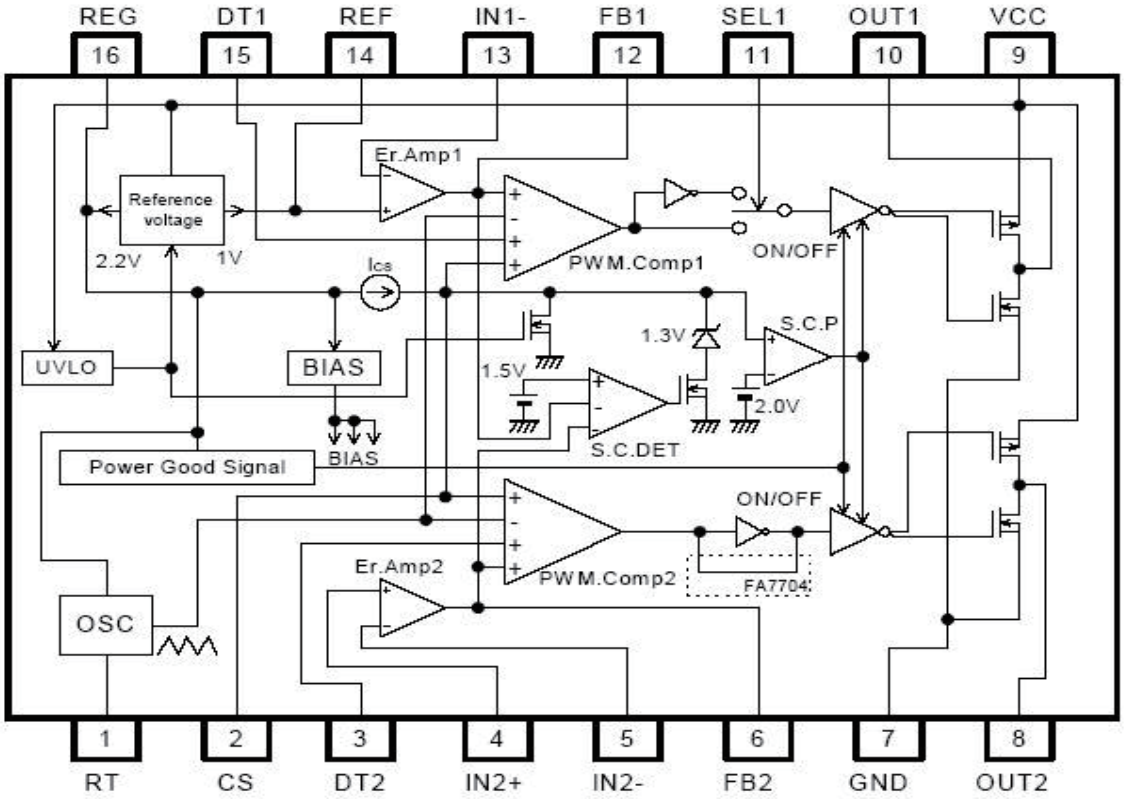
CVBS <TCV>	HSYNC signal <TGHS>	VSYNC signal <TVGS>
		
HSYNC signal <TDHS>	**VSYNC signal <TDVS>**	
		
R-S&H signal <TP_R1>	**G-S&H signal <TP_G1>**	**B-S&H signal <TP_B1>**
		

IC Block Diagrams

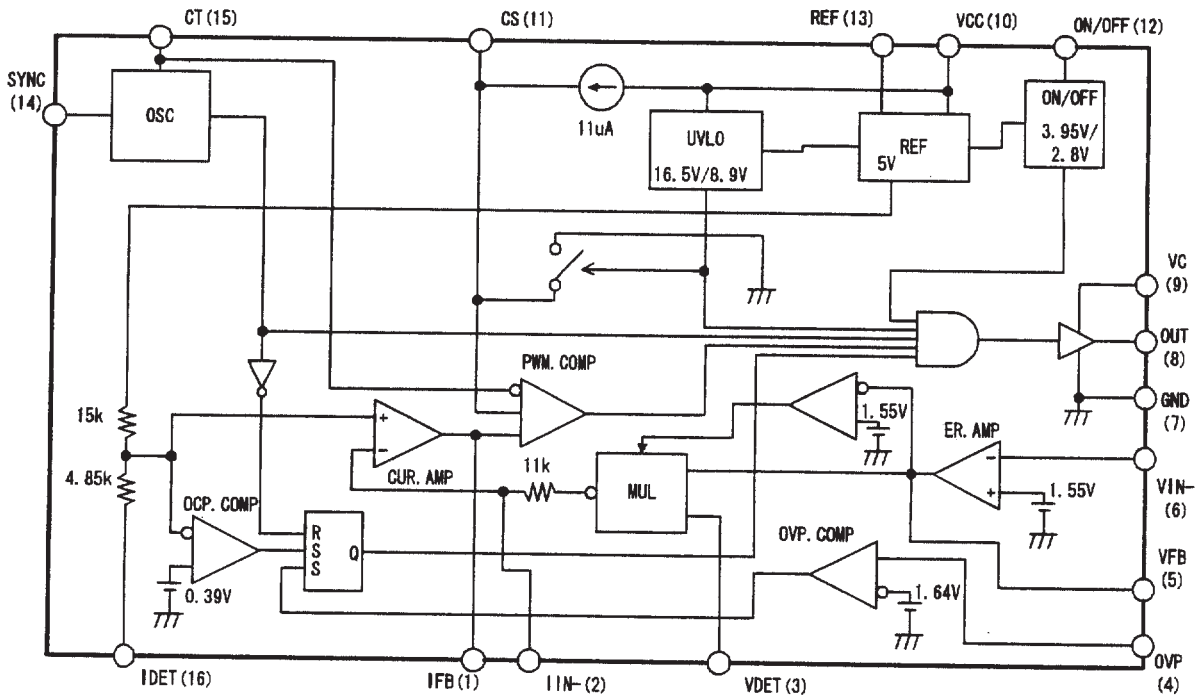
● TC74LVX4053 <Analog Multiplexer/Demultipexer, IC1041>



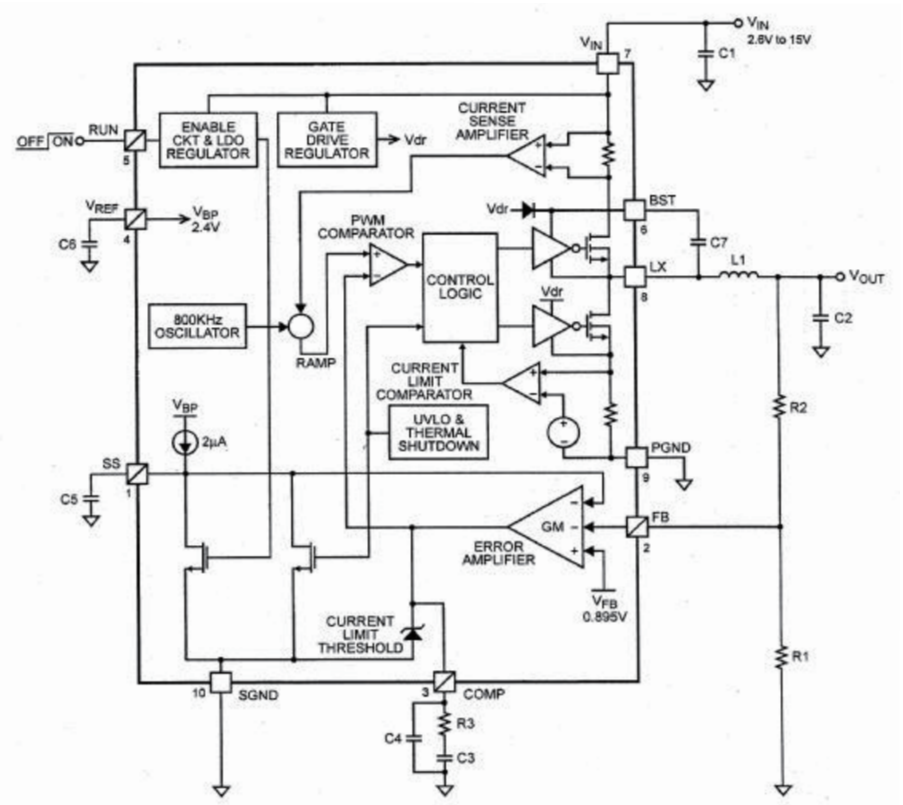
● FA7703<DDC Control, IC7811>



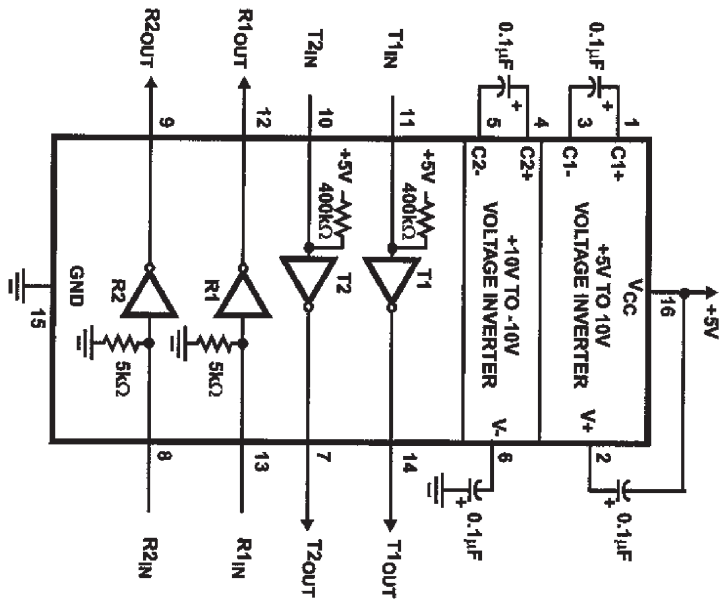
● FA5502 <P.F. Control, IC621>



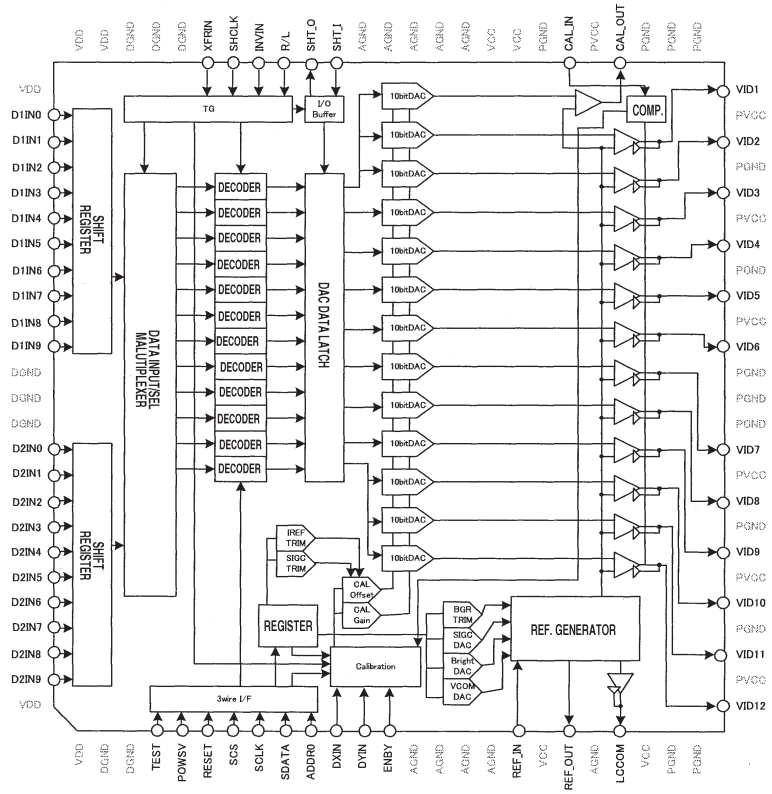
● MP2106 <DC-DC Converter, IC5821, IC5861>



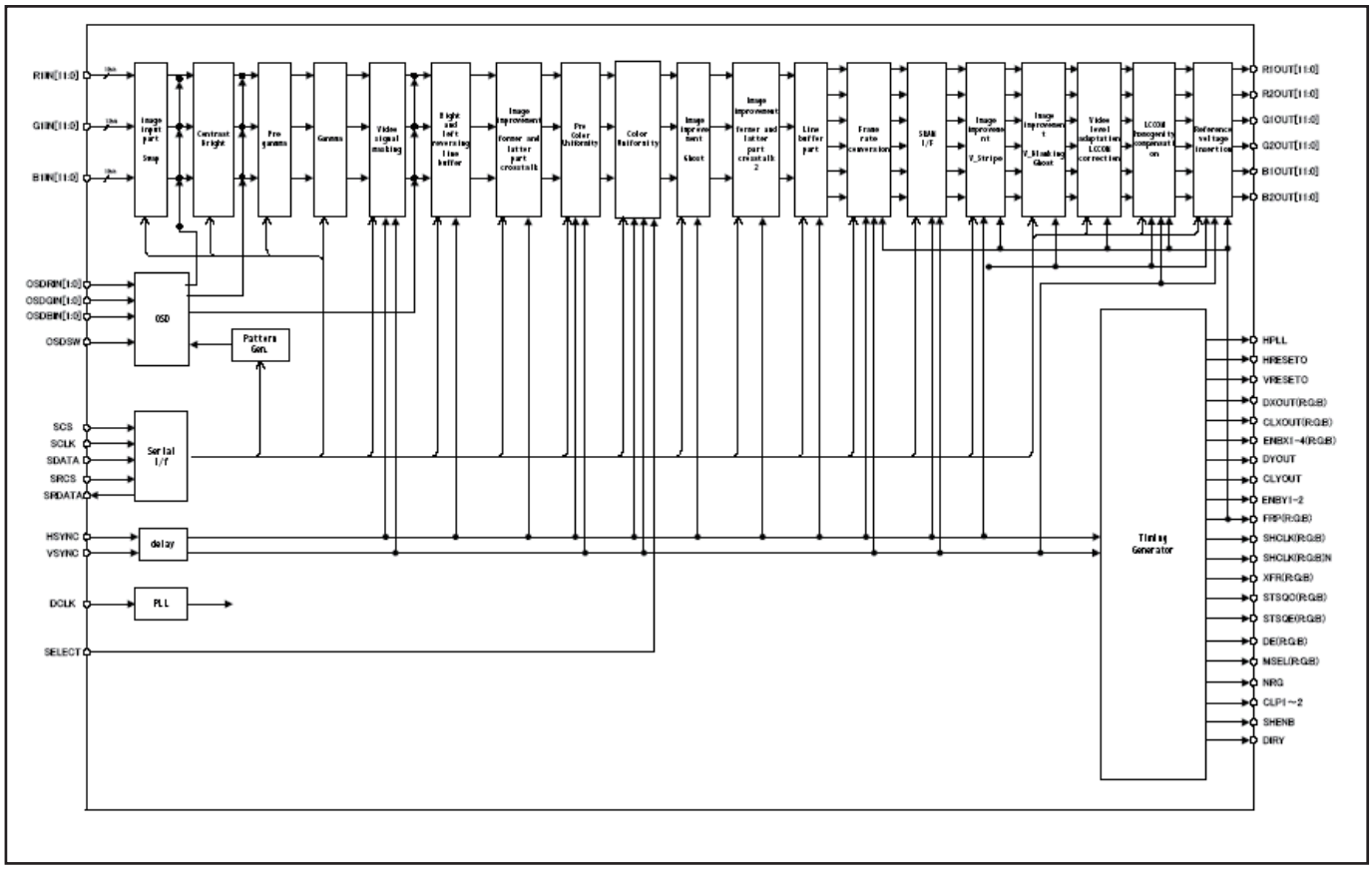
● HIN202EIB <RS-232C Driver, IC3801>



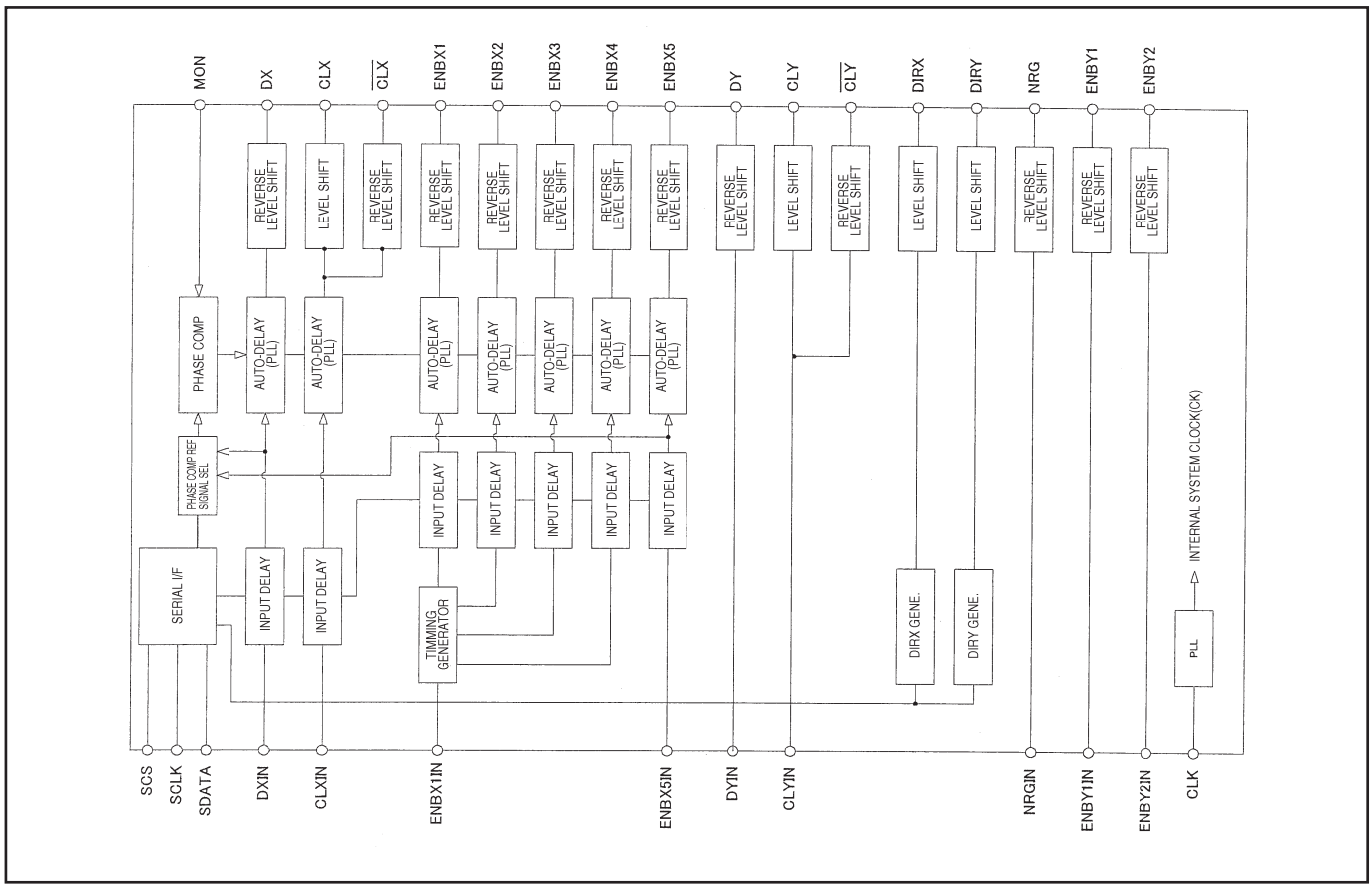
● L3E06150 <D/A, S/H-LCD Driver, IC501, IC531, IC561>



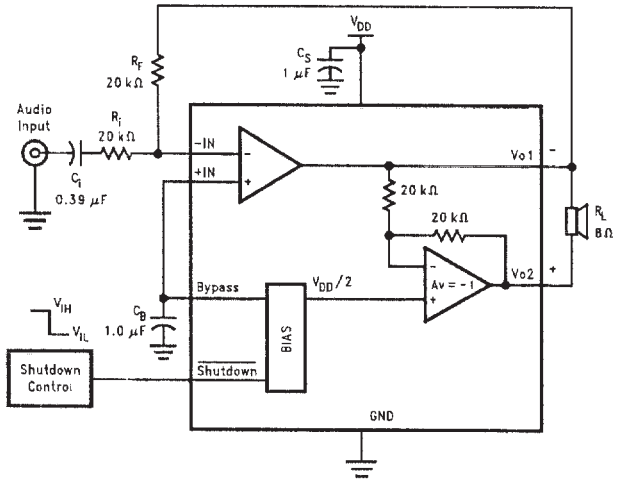
● L3E07111 <LCD Driver & Gamma Correction, IC401>



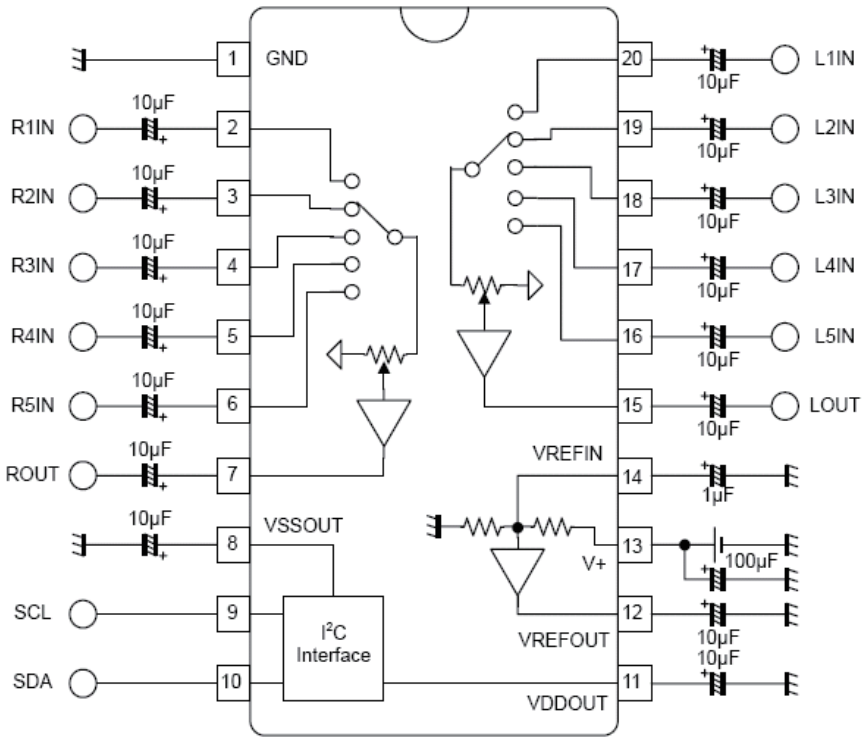
● L3E01060 <Level Shift, IC2501, IC2531, IC2561>



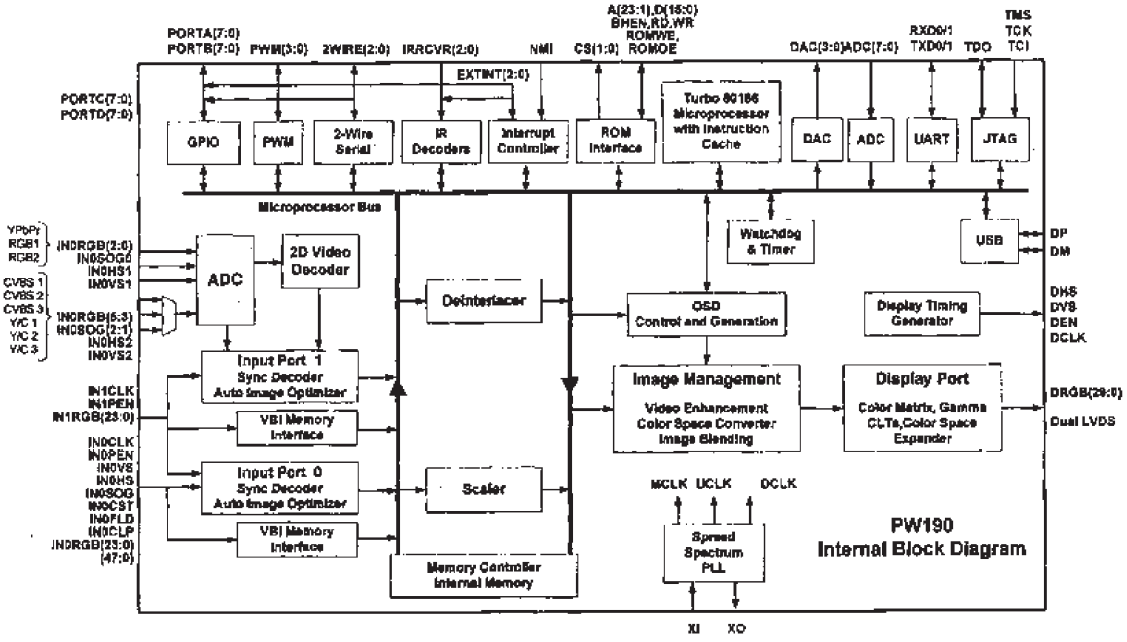
● LM4889 <Audio Output, IC5031>



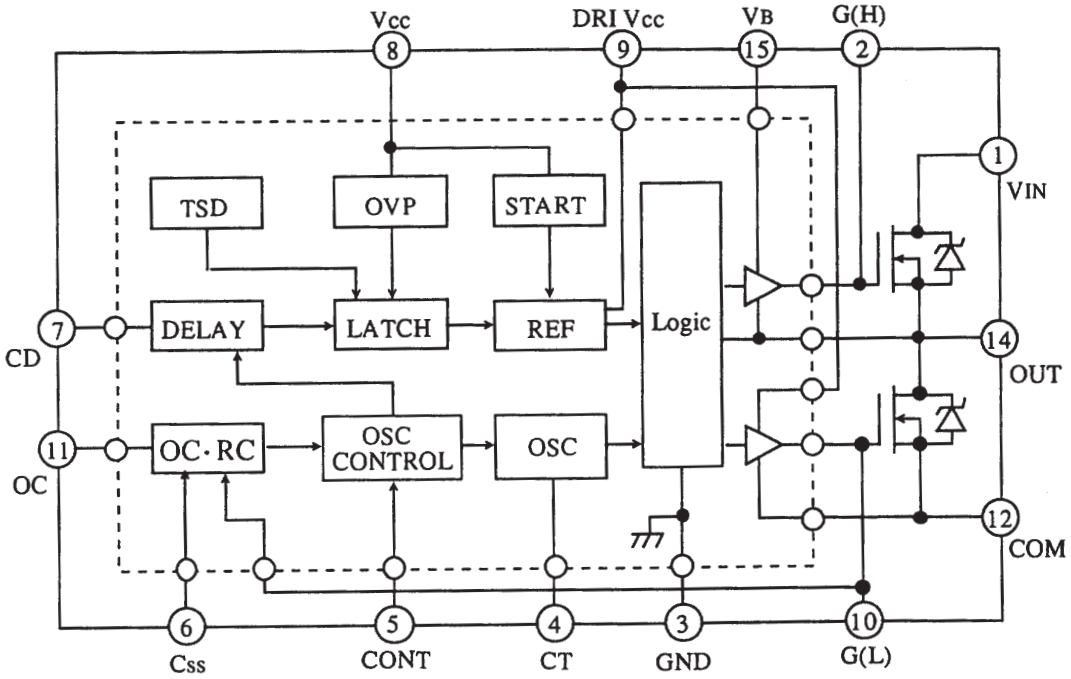
● NJW1156 <Audio Control, IC5001>



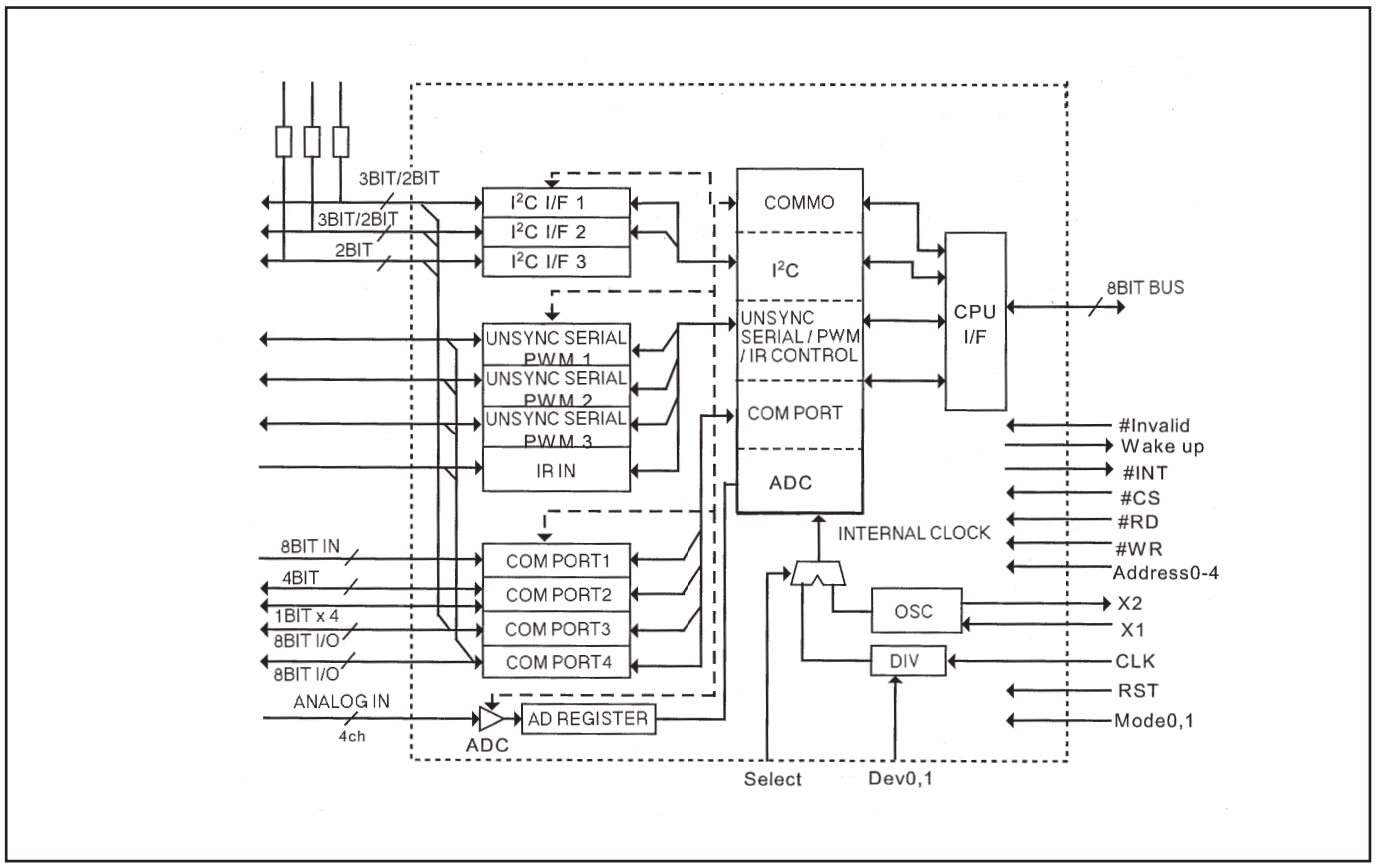
● PW190 <System Control, ADC, Video Decoder, Scaler, IC301>



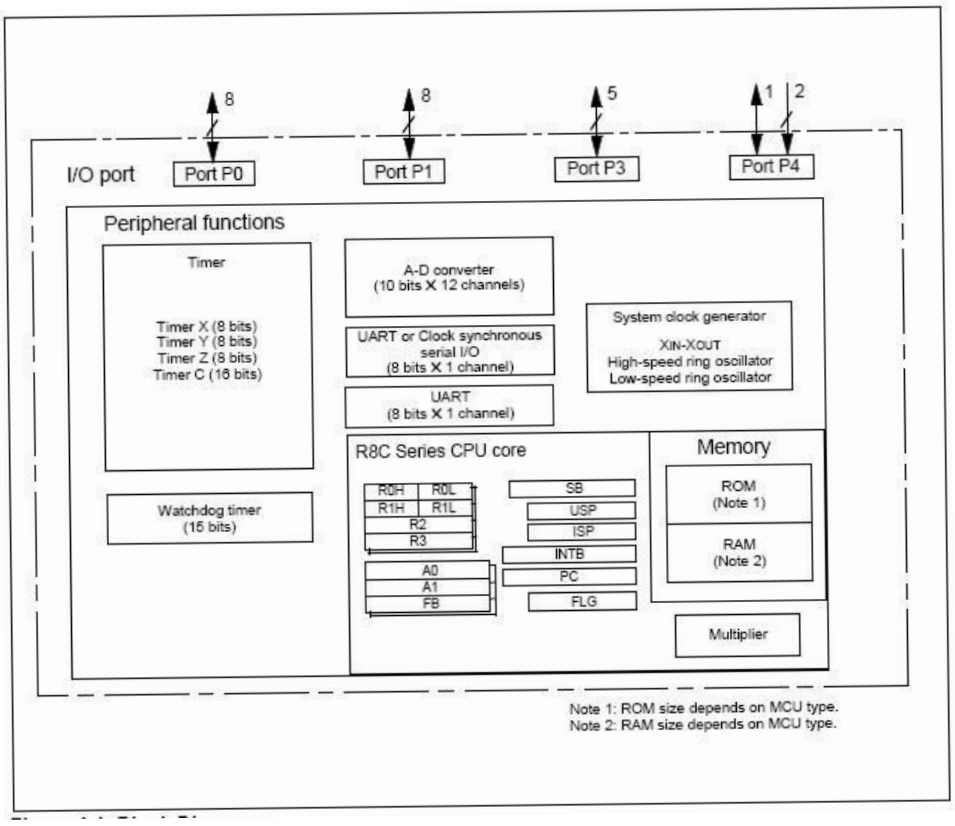
● STR-Z2156<Power OSC, IC631>



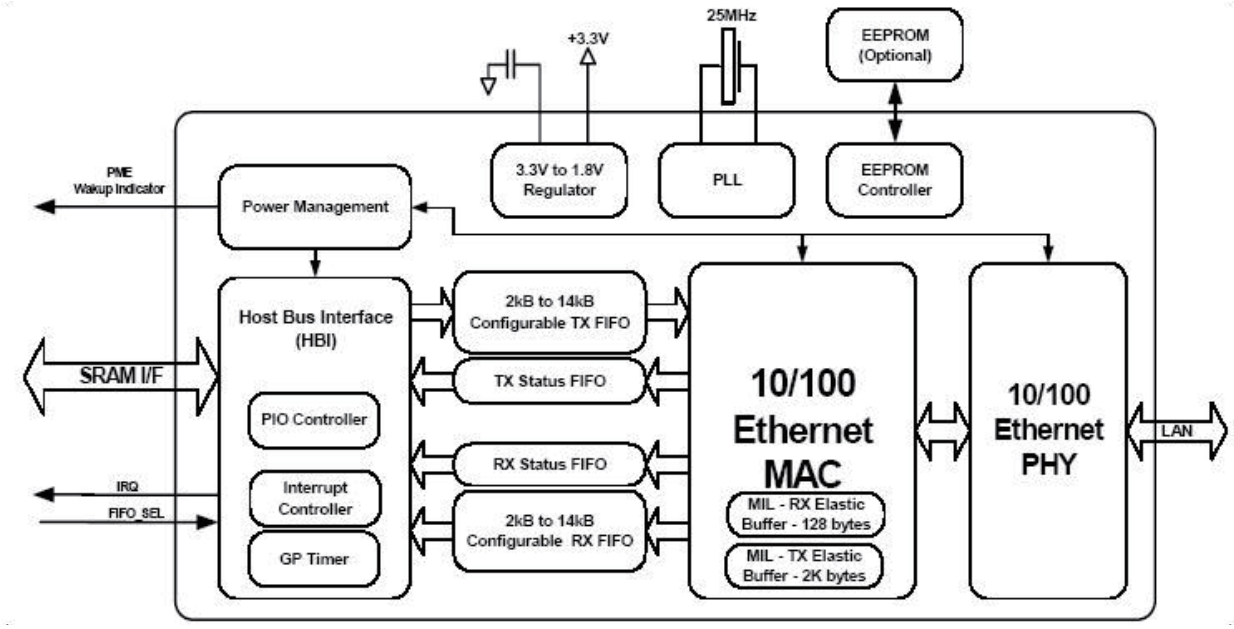
● TE7783 <Parallel I/O Expander, IC1802>



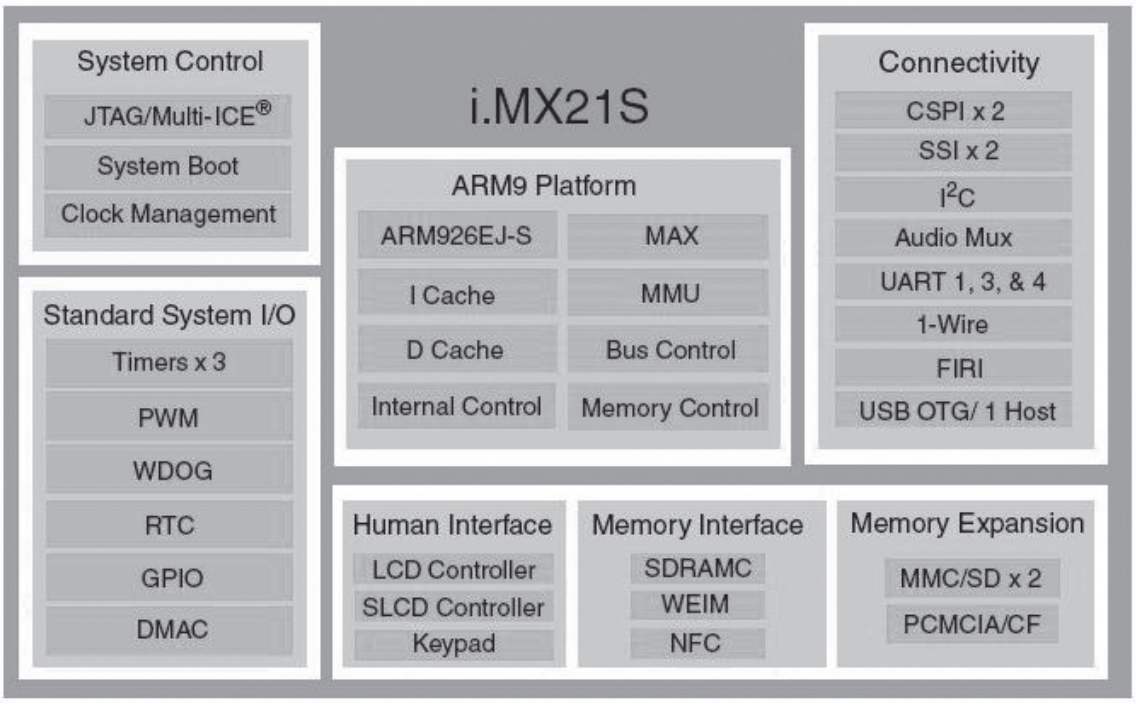
● R5F21134FP <System Control Alarm, IC8701>



● LAN9118 <LAN Driver, , IC8801>



● MC9328MX21 <System Control of Network, IC8301>



Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.
Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic
MT-PAPER..... Metallized Paper
POLYESTER..... Polyester
MT-POLYEST.....Metallized Polyester
POLYPRO..... Polypropylene
MT-POLYPRO....Metallized Polypropylene
COMPO FILM..... Composite film
MT-COMPO.....Metallized Composite
STYRENE.....Styrene
TA-SOLID..... Tantalum Oxide Solid Electrolytic
AL-SOLID..... Aluminium Solid Electrolytic
ELECT..... Aluminum Foil Electrolytic
NP-ELECT.....Non-polarised Electrolytic
OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID..... Polymerized Organic Semiconductive
DL-ELECT..... Double Layered Electrolytic
PPS-FILM.....Polyphenylene Sulfide Film
MT-PPS-FILM.....Metalized Polyphenylene Sulfide Film
MT-PEN-FILM.....Metalized Polyethylenenaphthalate Film
CAPACITOR.....Other

RESISTOR CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:
A: General B: Non flammable Z: Low noise
Other: Temperature coefficient

T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

Tolerance Symbols:
A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
F: ±1% G: ±2% J: ±5% K: ±10%
M: ±20% P: +5-15% Z: 0 ohm

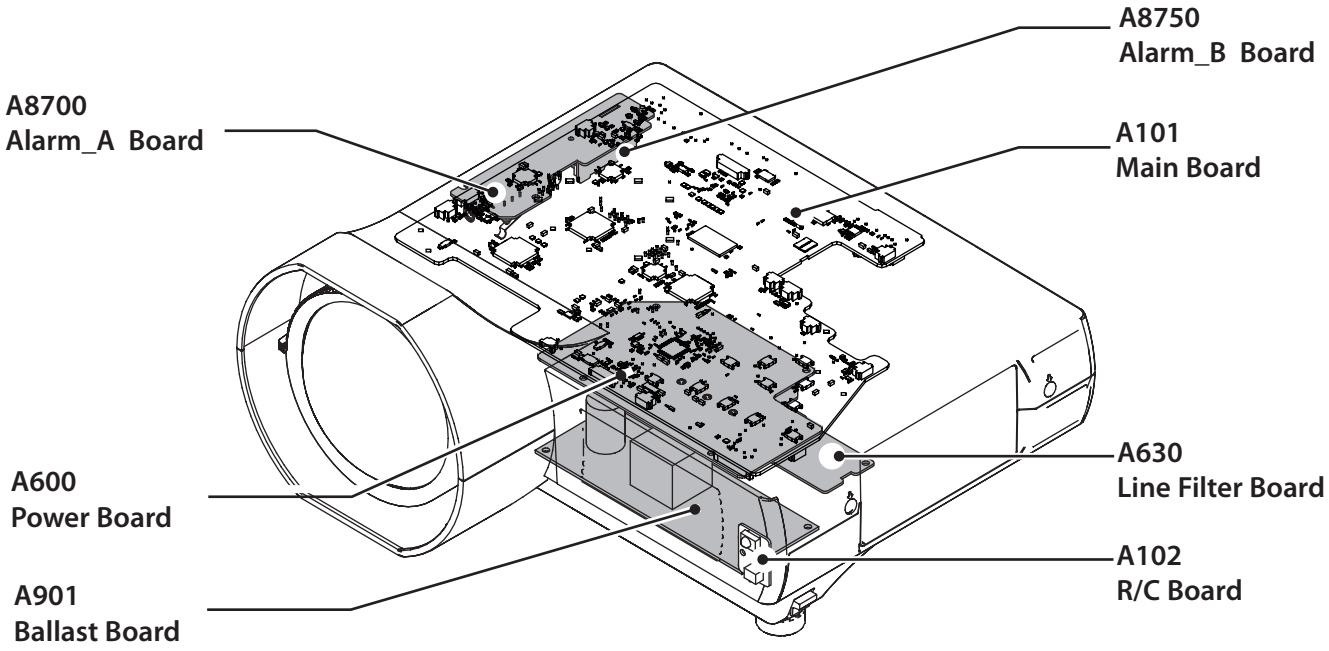
Rated value, ohms:
K: 1,000, M: 1,000,000

Material:

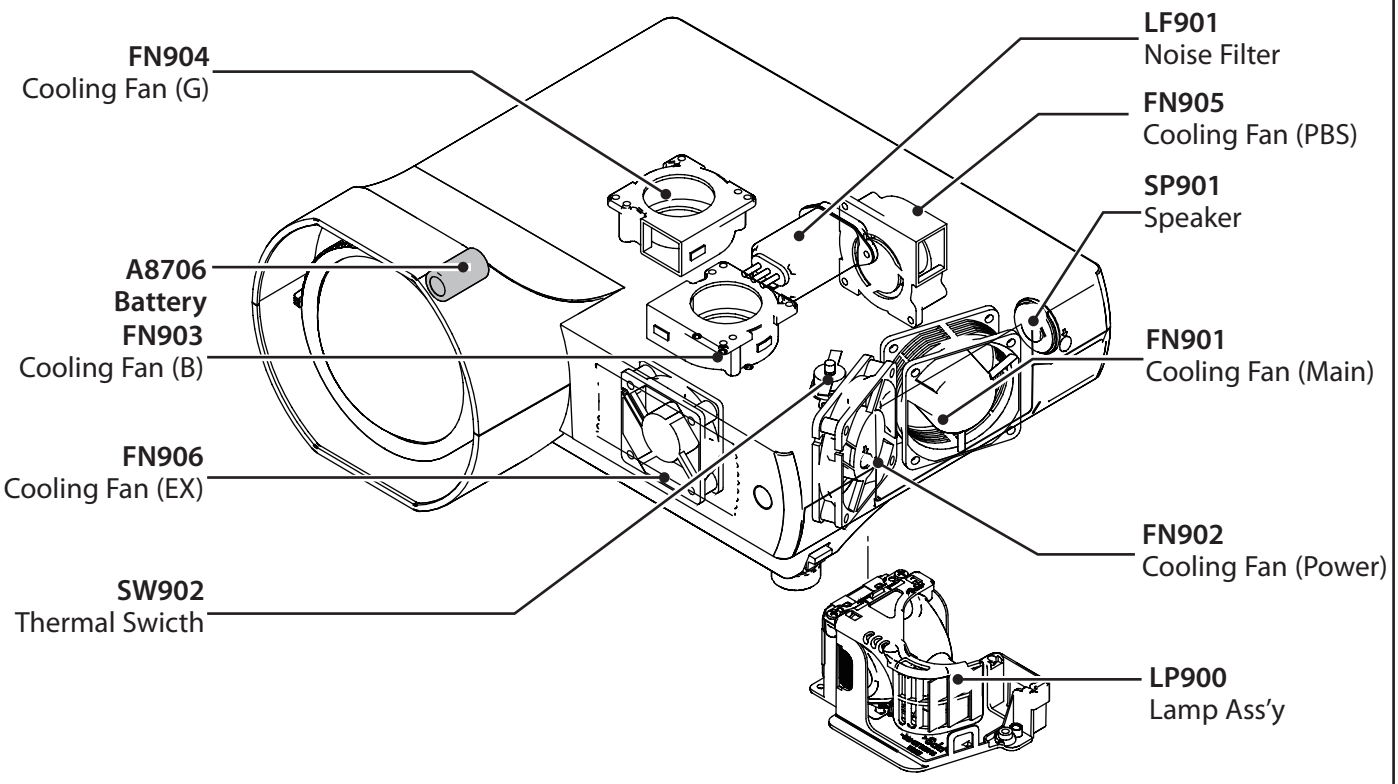
CARBON..... Carbon
MT-FILM..... Metal Film
OXIDE-MT..... Oxide Metal Film
SOLID..... Composition
MT-GLAZE..... Metal Glaze
WIRE WOUND... Wire Wound
CERAMIC RES.. Ceramic
FUSIBLE RES.... Fusible
RESISTOR .....Other

Electrical Parts Location

● Assemblied Boards



● Out Of Circuit Board



Electrical Parts List

Key No.	Part No.	Description
ASSEMBLED BOARD		
⚠A600	610 334 8797	ASSY,PWB,POWER KZ6AC
⚠A630	610 334 8889	ASSY,PWB,LINE FILTER
⚠A8750	610 331 4204	ASSY,PWB,ALARM-B LG6AC
⚠A8700	610 338 3453	ASSY,PWB,ALARM-A KJ7AC
⚠A102	655 002 7122	ASSY,PWB,R/C KM5AC
⚠A101	655 002 7337	ASSY,PWB,MAIN KM5YC
OUT OF CIRCUIT BOARD		
⚠LF901	945 078 6472	UNIT,NOISE FILTER
⚠LP900	610 340 8569	POA-LMP126
⚠A630A	655 001 6027	GASKET-KT6AC
⚠A8706	945 088 6837	BATTERY,LITHIUM
⚠A901	945 086 0981	BALLAST
⚠A901A	910 322 7093	CABLE,BALLAST MS5A
⚠FN901	945 084 2970	MOTOR,FAN DC 2.64W
⚠FN902	945 079 7195	MOTOR,FAN DC 2.52W
⚠FN903	945 062 3104	MOTOR,FAN DC 3.6W
⚠FN904	945 062 3104	MOTOR,FAN DC 3.6W
⚠FN905	945 062 3104	MOTOR,FAN DC 3.6W
⚠FN906	945 078 5666	MOTOR,FAN DC 1.56W
⚠SP901	652 002 4397	SPEAKER,8
⚠SW902	945 079 2527	SWITCH,THERMAL(105DEG)
610 334 8797 ASSY,PWB,POWER KZ6AC		
TRANSISTOR		
Q601	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q602	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q611	305 140 3707	TR 2SK2698
Q621	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q622	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q642	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q643	305 217 6600	TR 2SK3934
Q651	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q661	305 047 9010	TR 2SB1204-S-TL-E
	305 047 9119	TR 2SB1204-T-TL
Q662	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC621	309 523 1413	IC FA5502M
IC631	309 558 4202	IC STR-Z2156A
IC651	309 344 6522	IC UPC1093T-E1
CAPACITOR		
C605	303 164 0217	CERAMIC 0.1U Z 25V
C611	303 222 1326	CERAMIC 1000P K 1K
C612	303 222 1326	CERAMIC 1000P K 1K
C613	303 371 8518	MT-POLYEST 1U K 400V
	303 427 2019	MT-POLYEST 1U K 400V
	303 451 4119	MT-POLYEST 1U K 450V
C614	303 371 8518	MT-POLYEST 1U K 400V
	303 427 2019	MT-POLYEST 1U K 400V
	303 451 4119	MT-POLYEST 1U K 450V
C615	304 102 7104	ELECT 120U M 420V
	304 106 8800	ELECT 120U M 420V
C616	303 371 8617	MT-POLYEST 0.1U K 450V
	303 427 1814	MT-POLYEST 0.1U K 450V
C62A	303 157 3317	CERAMIC 68P J 50V
C62B	303 157 6615	CERAMIC 470P K 50V
C62C	303 374 4210	CERAMIC 0.33U K 10V
C62D	303 164 0217	CERAMIC 0.1U Z 25V
C62E	303 164 0217	CERAMIC 0.1U Z 25V
C62F	303 370 9110	CERAMIC 0.068U K 50V
C62I	303 149 9211	CERAMIC 0.01U Z 50V
C62J	303 169 2810	CERAMIC 330P J 50V
C62K	303 323 3615	CERAMIC 0.047U K 50V
C62M	303 164 0217	CERAMIC 0.1U Z 25V
C62R	303 417 9912	CERAMIC 4.7U K 25V
C62T	303 164 0217	CERAMIC 0.1U Z 25V
C631	303 268 7013	TA-SOLID 2.2U M 35V
C633	303 113 3818	CERAMIC 1000P K 50V
C634	303 247 3319	CERAMIC 330P K 2K
C635	303 167 8616	CERAMIC 220P K 2K
C636	303 070 2619	CERAMIC 0.1U Z 50V
C637	303 157 6813	CERAMIC 680P K 50V
C638	303 182 8110	TA-SOLID 1U M 25V
	303 208 1415	TA-SOLID 1U M 25V
	303 411 5712	TA-SOLID 1U M 25V
C639	303 410 7618	ELECT 220U M 35V
C640	303 164 0217	CERAMIC 0.1U Z 25V
C641	303 352 8216	CERAMIC 0.47U Z 16V
C642	303 084 0311	POLYPRO 0.022U J 630V
C643	303 256 2419	CERAMIC 0.22U Z 50V
C644	303 417 9912	CERAMIC 4.7U K 25V
C651	303 392 0703	ELECT 1000U M 25V
C652	303 427 6245	ELECT 1000U M 10V
C653	303 437 4713	ELECT 470U M 16V

Electrical Parts List

Key No.	Part No.	Description
C654	303 164 0217	CERAMIC 0.1U Z 25V
C655	303 164 0217	CERAMIC 0.1U Z 25V
C656	303 345 9619	CERAMIC 0.47U K 10V
C657	303 157 6417	CERAMIC 330P K 50V
C658	303 157 6417	CERAMIC 330P K 50V
C659	303 199 6344	ELECT 1000U M 25V
	303 400 6822	ELECT 1000U M 25V
C660	303 164 0217	CERAMIC 0.1U Z 25V
C661	303 358 3215	CERAMIC 10U K 6.3V
	303 368 7319	CERAMIC 10U K 6.3V
C691	303 400 7136	ELECT 330U M 25V
	304 106 9708	ELECT 330U M 25V
C693	303 219 7829	ELECT 1000U M 10V
	303 400 5023	ELECT 1000U M 10V
C694	303 443 4605	ELECT 1000U M 6.3V
RESISTOR		
R603	301 255 8517	MT-GLAZE 9.1K JA 1/10W
R604	301 256 6611	MT-GLAZE 68K JA 1/10W
R606	301 162 4015	MT-GLAZE 560 JA 1/10W
R607	301 162 2417	MT-GLAZE 1.2K JA 1/10W
R611	302 088 0102	RESISTER 0.15 KA 2W
R612	302 088 0102	RESISTER 0.15 KA 2W
R615	301 242 3914	MT-GLAZE 240K JA 1/2W
R616	301 242 3914	MT-GLAZE 240K JA 1/2W
R617	301 259 9015	MT-GLAZE 150K FA 1/2W
R618	301 259 9015	MT-GLAZE 150K FA 1/2W
R619	301 259 9015	MT-GLAZE 150K FA 1/2W
R61A	301 275 2915	MT-GLAZE 68K JA 1W
R61B	301 275 2915	MT-GLAZE 68K JA 1W
R61E	301 275 2915	MT-GLAZE 68K JA 1W
R61F	301 275 2915	MT-GLAZE 68K JA 1W
R620	301 259 9015	MT-GLAZE 150K FA 1/2W
R623	301 162 3711	MT-GLAZE 4.7K JA 1/10W
R62A	301 256 3818	MT-GLAZE 1.5K JA 1/10W
R62B	301 150 5918	MT-GLAZE 10K JA 1/10W
R62C	301 162 3810	MT-GLAZE 470K JA 1/10W
R62D	301 255 6810	MT-GLAZE 30K JA 1/10W
R62E	301 256 3719	MT-GLAZE 750 JA 1/10W
R62F	301 264 2810	MT-GLAZE 1.2K FA 1/10W
R62G	301 255 6513	MT-GLAZE 100 JA 1/10W
R62H	301 152 3219	MT-GLAZE 330 JA 1/10W
R62I	301 265 0914	MT-GLAZE 4.7 JA 1/10W
R62J	301 162 2714	MT-GLAZE 180 JA 1/10W
R62L	301 256 2613	MT-GLAZE 2.4K JA 1/10W
R62M	301 256 7519	MT-GLAZE 390 JA 1/10W
R62P	301 256 6314	MT-GLAZE 47K JA 1/10W
R62Q	301 255 8715	MT-GLAZE 22 JA 1/10W
R62R	301 256 4716	MT-GLAZE 5.6M JA 1/10W
R62T	301 255 9514	MT-GLAZE 220K JA 1/10W
⚠R631	324 006 1305	FUSE 250V 2.5A
R633	301 323 4618	MT(LEADFREE 15 JA 3/4W
R634	301 238 4512	MT-GLAZE 47 JA 1/3W
R635	301 150 6212	MT-GLAZE 1K JA 1/10W
R636	301 257 7419	MT-GLAZE 120 JA 1/3W
R637	301 162 3711	MT-GLAZE 4.7K JA 1/10W
R638	301 150 5918	MT-GLAZE 10K JA 1/10W
R639	301 256 2613	MT-GLAZE 2.4K JA 1/10W
R641	301 188 0114	MT-GLAZE 18K JA 1/4W
R646	301 150 5918	MT-GLAZE 10K JA 1/10W
R647	301 256 5911	MT-GLAZE 2.7K JA 1/10W
R648	301 256 3610	MT-GLAZE 15K JA 1/10W
R651	301 150 6212	MT-GLAZE 1K JA 1/10W
R652	301 162 2219	MT-GLAZE 10 JA 1/10W
R653	301 326 1713	MT-GLAZE 10K DA 1/10W
R654	301 152 3219	MT-GLAZE 330 JA 1/10W
R655	301 256 7311	MT-GLAZE 6.8K JA 1/10W
R656	301 256 6215	MT-GLAZE 270 JA 1/10W
R657	301 150 6212	MT-GLAZE 1K JA 1/10W
R658	301 150 6212	MT-GLAZE 1K JA 1/10W
R659	301 150 6212	MT-GLAZE 1K JA 1/10W
R660	301 162 3711	MT-GLAZE 4.7K JA 1/10W
R661	301 150 5918	MT-GLAZE 10K JA 1/10W
R662	301 230 8013	MT-GLAZE 1K JA 1/3W
R663	301 162 3711	MT-GLAZE 4.7K JA 1/10W
R664	301 150 5918	MT-GLAZE 10K JA 1/10W
VARABLE RESISTOR		
VR611	945 025 7415	VR,SEMI,1K S
TRANSFORMER		
⚠T651	945 077 6312	TRANS,POWER,PULSE
	945 083 6948	TRANS,POWER,PULSE
COIL		
⚠L612	945 077 6565	INDUCTOR,900U
	945 084 0273	INDUCTOR,1400U
DIODE		
D611	307 191 3903	DIODE FML-G16S
D612	307 164 4015	DIODE RB160L-40-TE25
	307 149 6327	DIODE SFPB-54V
D616	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D617	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D618	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D619	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D62R	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D631	307 247 8827	DIODE RF101L2S
D633	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
	307 221 7119	ZENER DIODE UDZS-TE-1712B
D636	407 256 3213	DIODE CRF03(TE85L)
D651	307 222 9607	DIODE FMB-2306
	307 250 2403	DIODE RB225T-60
D652	307 222 9706	DIODE FMJ-23L
	307 250 2502	DIODE RSX1001T3
D653	307 247 8827	DIODE RF101L2S
D654	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
DB611	307 202 7708	DIODE D10XB60
MISCELLANEOUS		
FB611	910 244 3975	CORE
FB613	910 244 3975	CORE
FB691	910 244 3975	CORE
FB693	910 244 3975	CORE
FB694	307 210 5416	DIODE RB551V-30-TE-17
	945 086 6853	72UH(17X17X9-2A-90)
⚠PC641	307 223 7315	PC TLP421F(D4-GB-TP4)
	307 223 8312	PC TLP421F(D4-GR-TP4)
⚠PC642	307 223 7315	PC TLP421F(D4-GB-TP4)
	307 223 8312	PC TLP421F(D4-GR-TP4)
⚠PC643	307 223 7315	PC TLP421F(D4-GB-TP4)
	307 223 8312	PC TLP421F(D4-GR-TP4)
PTH611	308 037 5501	THERMISTOR NTPDB5R0LDHB0
PTH612	308 053 9101	THERMISTOR PTFM04BC222Q2N34B0

610 334 8889 ASSY,PWB,LINE FILTER

CAPACITOR

Electrical Parts List

Key No.	Part No.	Description
⚠C601	304 079 5608	MT-POLYEST 0.47U M 275V
	304 094 2002	MT-POLYEST 0.47U K 275V
⚠C602	304 079 5608	MT-POLYEST 0.47U M 275V
	304 094 2002	MT-POLYEST 0.47U K 275V
RESISTOR		
⚠R601	301 287 9018	MT-GLAZE 470K JA 1W
⚠R602	301 287 9018	MT-GLAZE 470K JA 1W
VARIBLE RESISTOR		
⚠VA601	308 061 5607	VARISTOR ENE471D-14A-S6
COIL		
⚠L601	945 050 2232	LINE FILTER
MISCELLANEOUS		
⚠F601	323 021 7804	FUSE 250V 6.3A
	945 050 2232	10MH(33X26-5A-250V)
SW901	945 063 8078	SWITCH,PUSH 2P-2TX3

610 331 4204 ASSY,PWB,ALARM-B LG6AC

Key No.	Part No.	Description
RESISTOR		
R8751	301 256 2019	MT-GLAZE 430 JA 1/10W
DIODE		
D8751	307 204 0014	LED SML-210LT T86 L
	307 203 7816	LED SML-210LT T86 M
MISCELLANOUS		
SW8751	910 011 1791	PUSH
SW8752	910 011 1791	PUSH
SW8753	910 011 1791	PUSH
SW8754	910 011 1791	PUSH

610 338 3453 ASSY,PWB,ALARM-A KJ7AC

Key No.	Part No.	Description
TRANSISTOR		
Q8701	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q8702	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q8751	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q8752	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q8753	305 191 5814	TR 3LN01C-TB-E
Q8754	305 191 5814	TR 3LN01C-TB-E
Q8756	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q8757	305 191 5814	TR 3LN01C-TB-E
Q8758	305 191 5814	TR 3LN01C-TB-E
Q8759	305 191 5814	TR 3LN01C-TB-E
INTEGRATED CIRCUIT		
IC8701	410 628 6603	IC R5F21134FP-C803B
IC8703	309 155 7329	IC TC4S71F-TE85L
IC8708	310 596 5205	IC S-1000C27-M5T1G
IC8712	309 482 3817	IC NJM2360AM(TE2)
CAPACITOR		
C8701	303 342 3313	CERAMIC 0.1U K 25V
	304 095 0809	CERAMIC 0.1U K 25V
C8702	303 342 3313	CERAMIC 0.1U K 25V
	304 095 0809	CERAMIC 0.1U K 25V
C8703	303 342 3313	CERAMIC 0.1U K 25V
	304 095 0809	CERAMIC 0.1U K 25V
C8704	303 342 3313	CERAMIC 0.1U K 25V
	304 095 0809	CERAMIC 0.1U K 25V
C8705	303 391 5313	ELECT 47U M 6.3V
	303 184 8019	ELECT 47U M 6.3V
C8706	303 305 9918	CERAMIC 680P J 25V
C8707	303 398 3817	ELECT 220U M 16V
	403 457 1416	ELECT 220U M 16V
RESISTOR		
R8701	301 150 5918	MT-GLAZE 10K JA 1/10W
R8702	301 150 5918	MT-GLAZE 10K JA 1/10W
R8703	301 150 5918	MT-GLAZE 10K JA 1/10W
R8704	301 150 5918	MT-GLAZE 10K JA 1/10W
R8706	301 255 8111	MT-GLAZE 5.1K JA 1/10W
R8707	301 150 5918	MT-GLAZE 10K JA 1/10W
R8709	301 162 3612	MT-GLAZE 470 JA 1/10W
R8711	301 150 5918	MT-GLAZE 10K JA 1/10W
R8712	301 150 5918	MT-GLAZE 10K JA 1/10W
R8713	301 150 5918	MT-GLAZE 10K JA 1/10W
R8714	301 162 3117	MT-GLAZE 3.3K JA 1/10W
R8715	301 162 3117	MT-GLAZE 3.3K JA 1/10W
R8716	301 162 3117	MT-GLAZE 3.3K JA 1/10W
R8717	301 150 5918	MT-GLAZE 10K JA 1/10W
R8718	301 150 5918	MT-GLAZE 10K JA 1/10W
R8719	301 150 5918	MT-GLAZE 10K JA 1/10W
R8721	301 150 5918	MT-GLAZE 10K JA 1/10W
R8722	301 150 6212	MT-GLAZE 1K JA 1/10W
R8723	301 162 3612	MT-GLAZE 470 JA 1/10W
R8724	301 150 5918	MT-GLAZE 10K JA 1/10W
R8726	301 150 5918	MT-GLAZE 10K JA 1/10W
R8731	301 150 5918	MT-GLAZE 10K JA 1/10W
R8732	301 150 5819	MT-GLAZE 100K JA 1/10W
R8733	301 255 6513	MT-GLAZE 100 JA 1/10W
R8747	301 162 3810	MT-GLAZE 470K JA 1/10W
R8748	301 150 5819	MT-GLAZE 100K JA 1/10W
R8749	301 150 5819	MT-GLAZE 100K JA 1/10W
R8750	301 256 5812	MT-GLAZE 270K JA 1/10W
R8752	301 234 4714	MT-GLAZE 3.3 JA 1W
R8754	301 256 0213	MT-GLAZE 120K JA 1/10W
R8755	301 234 4714	MT-GLAZE 3.3 JA 1W
R8756	301 255 5912	MT-GLAZE 200 JA 1/10W
R8757	301 255 9712	MT-GLAZE 82K JA 1/10W
R8758	301 255 8517	MT-GLAZE 9.1K JA 1/10W
R8759	301 256 0213	MT-GLAZE 120K JA 1/10W

Electrical Parts List

Key No.	Part No.	Description
R8761	301 150 6113	MT-GLAZE 2.2K JA 1/10W
R8762	301 150 6212	MT-GLAZE 1K JA 1/10W
R8763	301 150 6212	MT-GLAZE 1K JA 1/10W
R8764	301 255 8111	MT-GLAZE 5.1K JA 1/10W
R8765	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R8771	301 234 4714	MT-GLAZE 3.3 JA 1W
R8772	301 234 4714	MT-GLAZE 3.3 JA 1W
R8773	301 162 3117	MT-GLAZE 3.3K JA 1/10W
R8776	301 162 3117	MT-GLAZE 3.3K JA 1/10W
R8777	301 150 6212	MT-GLAZE 1K JA 1/10W
R8778	301 255 9514	MT-GLAZE 220K JA 1/10W
R8779	301 255 9514	MT-GLAZE 220K JA 1/10W
R8782	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R8784	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R8787	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R8791	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
COIL		
L6801	945 033 7995	INDUCTOR,100U M
DIODE		
D8701	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D8702	307 210 5416	DIODE RB551V-30-TE-17
D8703	307 210 5416	DIODE RB551V-30-TE-17
D8704	307 210 5416	DIODE RB551V-30-TE-17
D8708	307 210 5416	DIODE RB551V-30-TE-17
D8709	307 210 5416	DIODE RB551V-30-TE-17
INTEGRATED CIRCUIT		
IC8706A	910 325 2491	STOPPER FLT BATTERY B-PZ5A
	610 332 3541	STOPPER FLT BATTERY B-LG6AC
IC8706B	910 325 2651	STOPPER FLT BATTERY A-PZ5A
	610 332 3589	STOPPER FLT BATTERY A-LG6AC
IC8709	420 002 2404	PZ BZR PKM22EPPH4007
IC8710	945 081 3857	SWITCH,SENSOR 2P-2T
SW8702	945 063 5176	SWITCH,PUSH 2P-2TX3

655 002 7122 ASSY,PWB,R/C KM5AC

CAPACITOR		
C2951	403 455 1012	CERAMIC 1U K 10V
	303 433 1112	CERAMIC 1U K 10V
C2952	303 453 8719	CERAMIC 470P K 50V
	303 453 9211	CERAMIC 470P K 50V
	303 282 5118	CERAMIC 470P K 50V
C2953	403 457 3311	CERAMIC 47U M 6.3V
	303 380 0114	CERAMIC 47U M 6.3V
RESISTOR		
R2951	301 225 1814	MT-GLAZE 47 JA 1/16W
R2952	301 224 8814	MT-GLAZE 100 JA 1/16W
MISCELLANEOUS		
A2951	945 084 1997	UNIT,REMOCON RECEIVER

655 002 7337 ASSY,PWB,MAIN KM5YC

TRANSISTOR		
Q1001	406 021 7804	TR 2SC4617
Q1002	406 021 7804	TR 2SC4617
Q1003	305 217 7815	TR HN1B04FE-Y TE85L
Q1004	305 217 7815	TR HN1B04FE-Y TE85L
Q1005	406 021 7804	TR 2SC4617
Q1006	305 217 7815	TR HN1B04FE-Y TE85L
Q1007	406 021 7804	TR 2SC4617
Q1008	406 021 7804	TR 2SC4617
Q1062	406 021 7804	TR 2SC4617
Q1801	305 191 5814	TR 3LN01C-TB-E
Q1802	305 191 5814	TR 3LN01C-TB-E
Q1803	406 021 7804	TR 2SC4617
Q2011	406 021 7804	TR 2SC4617
Q2021	406 021 7804	TR 2SC4617
Q2031	406 021 7804	TR 2SC4617
Q3051	406 021 7804	TR 2SC4617
Q3501	406 021 7804	TR 2SC4617
Q3502	305 002 8327	TR 2SA1203-Y-TE12L
Q3582	305 217 6917	TR TPC6107 TE85L
Q3583	406 021 7804	TR 2SC4617
Q3601	406 021 7804	TR 2SC4617
Q3801	305 191 5814	TR 3LN01C-TB-E
Q4011	305 217 7815	TR HN1B04FE-Y TE85L
Q4012	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5031	406 021 7804	TR 2SC4617
Q5032	406 021 7804	TR 2SC4617
Q5033	406 021 7804	TR 2SC4617
Q5034	406 021 7804	TR 2SC4617
Q5036	406 021 7804	TR 2SC4617
Q5061	406 021 7804	TR 2SC4617
Q5062	406 021 7804	TR 2SC4617
Q5063	406 021 7804	TR 2SC4617
Q5064	406 021 7804	TR 2SC4617
Q5081	406 021 7804	TR 2SC4617
Q5082	406 021 7804	TR 2SC4617
Q5306	406 021 7804	TR 2SC4617
Q5331	305 217 7815	TR HN1B04FE-Y TE85L
Q5332	305 217 7815	TR HN1B04FE-Y TE85L
Q5336	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5751	305 217 6917	TR TPC6107 TE85L
Q5752	406 021 7804	TR 2SC4617
Q6841	406 021 7804	TR 2SC4617
Q6842	406 021 7804	TR 2SC4617
Q6843	406 021 7804	TR 2SC4617
Q6844	406 021 7804	TR 2SC4617
Q6861	305 217 7815	TR HN1B04FE-Y TE85L
Q7801	406 021 7804	TR 2SC4617
Q7811	406 021 7804	TR 2SC4617
Q7812	305 217 8515	TR RSQ025P03-TR
Q7813	305 217 7815	TR HN1B04FE-Y TE85L
Q7862	305 217 8515	TR RSQ025P03-TR
Q7864	305 217 7815	TR HN1B04FE-Y TE85L
INTEGRATED CIRCUIT		
IC1041	310 517 6809	IC TC74LVX4053FT
IC1051	309 462 0327	IC 24LC21AT/SN
IC1301	310 616 3402	IC PST413A300NR
	410 647 7902	IC MCP103T-300
IC1351	310 479 4004	IC TC7WBD125AFK
IC1391	410 656 8600	IC 24AA64T-I/MS
IC1802	309 671 7817	IC TE7783APF
	309 633 6117	IC TE7783PF
IC301	309 670 8419	IC PW190-10L
IC3801	309 652 0714	IC HIN202EIBNZ-T

Electrical Parts List

Key No.	Part No.	Description		
IC4701	309 428 8428	IC TC7WT125FU-TE12L		
IC4891	309 404 7213	IC TC7SET00FU-(TE85L)		
IC5001	409 683 5716	IC NJW1156AV		
IC5031	309 594 1916	IC LM4889MMX		
IC5081	309 578 6210	IC PQ1M505M2SPQ		
IC5301	309 439 8919	IC TC7WH125FU		
IC5302	309 439 8919	IC TC7WH125FU		
IC5461	410 656 8501	IC XC6216BC02MR		
IC5601	410 666 0809	IC LM39101D-5.0V		
IC5621	410 651 0104	IC R1131D101B-TR-F		
IC5821	409 689 2115	IC MP2106DK		
IC5841	409 694 5316	IC TJ3965D-2.5V-8L		
IC5861	409 689 2115	IC MP2106DK		
IC7811	309 675 1316	IC FA7703V-H1		
IC801	410 681 2109	IC S29GL064N90TFI030KM5AC		
IC8301	410 641 3900	IC MC9328MX21VM		
IC8302	410 656 8600	IC 24AA64T-I/MS		
IC8303	309 301 5431	IC TC7S14FU(TE85L)		
IC8304	309 301 5431	IC TC7S14FU(TE85L)		
IC8501	410 674 5803	IC S29GL032N90TFI030KM5AC		
IC8551	410 650 3403	IC K4M283233H-HN75		
	410 650 3205	IC IS42S32400D-6BL		
IC8801	410 641 4105	IC LAN9118-MT-REV.A		
IC8902	410 643 5100	IC PQ070XNB1ZPH		
IC9701	310 428 4307	IC LM809M3-2.93		
IC9883	309 487 5727	IC TC7SZ125FU		
CAPACITOR				
C1001	303 384 4712	TA-SOLID	47U M	6.3V
	303 449 1212	POS-SOLID	47U M	6.3V
C1002	303 398 3312	ELECT	47U M	10V
	303 387 6119	ELECT	47U M	10V
C1003	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1004	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1005	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1006	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1007	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1008	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1009	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1010	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1013	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1015	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1016	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C1017	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C1018	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C1042	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1051	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1092	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C1301	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C1302	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1303	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C1304	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
	303 276 1317	CERAMIC	1000P K	50V
C1351	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1391	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1804	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1806	303 384 4712	TA-SOLID	47U M	6.3V
	303 449 1212	POS-SOLID	47U M	6.3V
C1807	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1808	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1811	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1812	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1813	303 453 6616	CERAMIC	6P D	50V
	303 454 0217	CERAMIC	6P D	50V
	303 279 2915	CERAMIC	6P D	50V
C1814	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
	303 276 1317	CERAMIC	1000P K	50V
C1816	303 453 7910	CERAMIC	18P J	50V
	303 454 0712	CERAMIC	18P J	50V
	303 276 2819	CERAMIC	18P J	50V
C1817	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1818	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1819	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1821	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1822	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1823	303 453 8917	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description		
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1824	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1826	303 384 4712	TA-SOLID	47U M	6.3V
	303 449 1212	POS-SOLID	47U M	6.3V
C1827	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1828	303 384 4712	TA-SOLID	47U M	6.3V
	303 449 1212	POS-SOLID	47U M	6.3V
C1829	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1831	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1832	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2001	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2002	303 384 4712	TA-SOLID	47U M	6.3V
	303 449 1212	POS-SOLID	47U M	6.3V
C2003	303 384 4712	TA-SOLID	47U M	6.3V
	303 449 1212	POS-SOLID	47U M	6.3V
C2004	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C2013	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C2023	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C2504	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2505	303 376 3112	ELECT	100U M	25V
	303 374 7815	ELECT	100UM	25V
C2506	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2507	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2508	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2509	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2511	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2512	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2513	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2514	403 455 1616	CERAMIC	10U K	16V
C2534	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2535	303 376 3112	ELECT	100U M	25V
	303 374 7815	ELECT	100UM	25V
C2536	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2537	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2538	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2539	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2541	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2542	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2543	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2544	403 455 1616	CERAMIC	10U K	16V
C2564	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2565	303 376 3112	ELECT	100U M	25V
	303 374 7815	ELECT	100UM	25V
C2566	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2567	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2568	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2569	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2571	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2572	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2573	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2574	403 455 1616	CERAMIC	10U K	16V
C2891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2892	303 453 7217	CERAMIC	47P J	50V
	303 454 1610	CERAMIC	47P J	50V
	303 305 8812	CERAMIC	47P J	50V
C301	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C302	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C303	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C304	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3051	303 453 6319	CERAMIC	100P J	50V
	303 454 0910	CERAMIC	100P J	50V
	303 294 6110	CERAMIC	100P J	50V
C3052	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C3053	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C306	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3061	303 453 6319	CERAMIC	100P J	50V
	303 454 0910	CERAMIC	100P J	50V
	303 294 6110	CERAMIC	100P J	50V

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Key No.	Part No.	Description		
C307	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C308	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C309	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C311	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C312	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C313	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C314	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C316	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C317	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C318	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C319	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C321	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C322	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C323	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C324	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C326	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C327	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C328	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C329	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C331	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C332	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C333	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C334	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C336	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C337	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C338	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C339	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C341	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C342	303 276 1911	CERAMIC	22P J	50V
C343	303 276 1911	CERAMIC	22P J	50V
C3501	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3502	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3503	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C3504	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3505	303 437 4614	CERAMIC	10U K	25V
C3506	403 467 0911	CERAMIC	0.1U K	25V
C351	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3511	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3512	303 376 3112	ELECT	100U M	25V
	303 374 7815	ELECT	100UM	25V
C3513	303 376 3112	ELECT	100U M	25V
	303 374 7815	ELECT	100UM	25V
C352	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C353	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3531	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3532	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3533	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C3534	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3535	303 437 4614	CERAMIC	10U K	25V
C3536	403 467 0911	CERAMIC	0.1U K	25V
C354	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C356	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3561	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3562	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C357	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V

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Key No.	Part No.	Description		
C358	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3580	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C3582	303 437 4614	CERAMIC	10U K	25V
C3583	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3584	403 467 0911	CERAMIC	0.1U K	25V
C3588	303 394 5815	CERAMIC	4.7U K	16V
C361	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C362	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C363	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C364	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C365	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C366	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C367	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C368	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C369	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C370	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C371	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C372	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C373	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C376	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C377	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C378	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C379	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C3801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3802	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3803	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3804	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3806	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C381	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C382	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C383	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C384	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C387	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C389	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C390	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C4001	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4002	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C401	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C402	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C403	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C404	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4057	303 398 3312	ELECT	47U M	10V
	303 387 6119	ELECT	47U M	10V
C406	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C407	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C411	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C412	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C413	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C414	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C416	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C417	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C421	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V

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Key No.	Part No.	Description		
	303 282 5118	CERAMIC	470P K	50V
C422	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C423	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C424	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C426	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C427	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C428	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C431	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C432	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C433	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C434	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C436	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C437	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C438	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C439	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C441	403 455 1616	CERAMIC	10U K	16V
C442	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C443	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C480	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4808	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C481	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C482	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C483	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5001	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5002	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5004	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5005	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C5006	303 437 4614	CERAMIC	10U K	25V
C5007	403 467 0911	CERAMIC	0.1U K	25V
C5008	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5009	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C501	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5011	303 394 5815	CERAMIC	4.7U K	16V
C5012	303 394 5815	CERAMIC	4.7U K	16V
C5013	303 394 5815	CERAMIC	4.7U K	16V
C5014	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C502	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5024	403 455 1616	CERAMIC	10U K	16V
C5025	403 455 1616	CERAMIC	10U K	16V
C5026	403 455 1616	CERAMIC	10U K	16V
C5027	403 455 1616	CERAMIC	10U K	16V
C5028	403 455 1616	CERAMIC	10U K	16V
C503	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5031	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5032	303 336 3510	CERAMIC	0.47U K	16V
C5033	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5037	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5038	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5039	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C504	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5041	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C505	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C506	403 467 0911	CERAMIC	0.1U K	25V
C5061	403 455 1616	CERAMIC	10U K	16V
C5069	403 455 1616	CERAMIC	10U K	16V
C507	403 467 0911	CERAMIC	0.1U K	25V
C508	403 467 0911	CERAMIC	0.1U K	25V
C5081	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5082	303 398 3312	ELECT	47U M	10V
	303 387 6119	ELECT	47U M	10V
C5083	303 398 3312	ELECT	47U M	10V
	303 387 6119	ELECT	47U M	10V
C5084	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5085	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5087	303 381 5613	ELECT	220U M	16V
	303 423 8916	ELECT	220U M	16V

Electrical Parts List

Key No.	Part No.	Description		
C509	403 467 0911	CERAMIC	0.1U K	25V
C510	403 467 0911	CERAMIC	0.1U K	25V
C511	403 467 0911	CERAMIC	0.1U K	25V
C512	403 467 0911	CERAMIC	0.1U K	25V
C513	403 467 0911	CERAMIC	0.1U K	25V
C515	403 467 0911	CERAMIC	0.1U K	25V
C516	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
	303 276 1317	CERAMIC	1000P K	50V
C517	403 467 0911	CERAMIC	0.1U K	25V
C519	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C524	403 455 1616	CERAMIC	10U K	16V
C529	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5304	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C531	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5315	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5316	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C5317	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C532	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C533	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5331	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C5332	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5334	303 453 6814	CERAMIC	68P J	50V
	303 454 0019	CERAMIC	68P J	50V
	303 320 0419	CERAMIC	68P J	50V
C5336	403 456 4616	CERAMIC	27P J	50V
	303 309 2519	CERAMIC	27P J	50V
C5337	303 453 6319	CERAMIC	100P J	50V
	303 454 0910	CERAMIC	100P J	50V
	303 294 6110	CERAMIC	100P J	50V
C534	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C535	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C536	403 467 0911	CERAMIC	0.1U K	25V
C537	403 467 0911	CERAMIC	0.1U K	25V
C538	403 467 0911	CERAMIC	0.1U K	25V
C539	403 467 0911	CERAMIC	0.1U K	25V
C540	403 467 0911	CERAMIC	0.1U K	25V
C541	403 467 0911	CERAMIC	0.1U K	25V
C542	403 467 0911	CERAMIC	0.1U K	25V
C543	403 467 0911	CERAMIC	0.1U K	25V
C545	403 467 0911	CERAMIC	0.1U K	25V
C546	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
	303 276 1317	CERAMIC	1000P K	50V
C547	403 467 0911	CERAMIC	0.1U K	25V
C549	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C554	403 455 1616	CERAMIC	10U K	16V
C559	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5601	303 398 3312	ELECT	47U M	10V
	303 387 6119	ELECT	47U M	10V
C5602	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5603	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C5604	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5606	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C5608	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C5609	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C561	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5611	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C562	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5621	303 383 5215	CERAMIC	4.7U K	6.3V
	303 393 2112	CERAMIC	4.7U K	6.3V
C5623	303 383 5215	CERAMIC	4.7U K	6.3V
	303 393 2112	CERAMIC	4.7U K	6.3V
C563	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C564	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5644	403 455 1616	CERAMIC	10U K	16V
C565	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C566	403 467 0911	CERAMIC	0.1U K	25V
C567	403 467 0911	CERAMIC	0.1U K	25V
C568	403 467 0911	CERAMIC	0.1U K	25V
C569	403 467 0911	CERAMIC	0.1U K	25V
C570	403 467 0911	CERAMIC	0.1U K	25V
C571	403 467 0911	CERAMIC	0.1U K	25V
C572	403 467 0911	CERAMIC	0.1U K	25V
C573	403 467 0911	CERAMIC	0.1U K	25V
C575	403 467 0911	CERAMIC	0.1U K	25V
C5752	303 396 9514	CERAMIC	2.2U K	10V
	303 382 7814	CERAMIC	2.2U K	10V
C576	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
	303 276 1317	CERAMIC	1000P K	50V
C5761	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C577	403 467 0911	CERAMIC	0.1U K	25V
C579	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5821	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V

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Key No.	Part No.	Description			Key No.	Part No.	Description		
C5822	303 157 7018	CERAMIC	1800P K	50V		303 441 9919	CERAMIC	6800P K	50V
C5823	303 454 0613	CERAMIC	0.01U K	50V	C8002	403 455 5317	CERAMIC	6800P K	50V
	303 441 9810	CERAMIC	0.01U K	50V		303 454 0118	CERAMIC	6800P K	50V
C5824	403 455 1616	CERAMIC	10U K	16V		303 441 9919	CERAMIC	6800P K	50V
C5825	303 381 5316	ELECT	100U M	16V	C801	303 453 8917	CERAMIC	0.1U K	16V
	303 369 3211	ELECT	100U M	16V		303 453 8610	CERAMIC	0.1U K	16V
C5826	303 454 0613	CERAMIC	0.01U K	50V		303 409 3426	CERAMIC	0.1U K	16V
	303 441 9810	CERAMIC	0.01U K	50V	C8301	303 276 1911	CERAMIC	22P J	50V
C5827	303 392 5015	CERAMIC	22U M	6.3V	C8302	303 276 1911	CERAMIC	22P J	50V
	303 443 9214	CERAMIC	22U M	6.3V	C8303	303 453 8917	CERAMIC	0.1U K	16V
C5828	403 462 2910	EP-ELECT	330U M	4V		303 453 8610	CERAMIC	0.1U K	16V
C5829	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C8304	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C584	403 455 1616	CERAMIC	10U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C5842	303 394 9318	ELECT	220U M	6.3V	C8306	303 453 8917	CERAMIC	0.1U K	16V
	303 387 5112	ELECT	220U M	6.3V		303 453 8610	CERAMIC	0.1U K	16V
C5843	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C8309	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C5844	403 455 1012	CERAMIC	1U K	10V		303 409 3426	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V	C8311	303 383 5215	CERAMIC	4.7U K	6.3V
C5845	403 455 1012	CERAMIC	1U K	10V		303 393 2112	CERAMIC	4.7U K	6.3V
	303 433 1112	CERAMIC	1U K	10V	C8312	303 453 8917	CERAMIC	0.1U K	16V
C5861	303 454 0613	CERAMIC	0.01U K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 441 9810	CERAMIC	0.01U K	50V		303 409 3426	CERAMIC	0.1U K	16V
C5862	303 453 9518	CERAMIC	3300P K	50V	C8313	303 453 8917	CERAMIC	0.1U K	16V
	303 279 5114	CERAMIC	3300P K	50V		303 453 8610	CERAMIC	0.1U K	16V
C5863	303 454 0613	CERAMIC	0.01U K	50V		303 409 3426	CERAMIC	0.1U K	16V
	303 441 9810	CERAMIC	0.01U K	50V	C8314	303 453 8917	CERAMIC	0.1U K	16V
C5864	403 455 1616	CERAMIC	10U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C5865	303 381 5316	ELECT	100U M	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 369 3211	ELECT	100U M	16V	C8315	403 455 1616	CERAMIC	10U K	16V
C5866	303 454 0613	CERAMIC	0.01U K	50V	C8316	303 453 8917	CERAMIC	0.1U K	16V
	303 441 9810	CERAMIC	0.01U K	50V		303 453 8610	CERAMIC	0.1U K	16V
C5867	303 392 5015	CERAMIC	22U M	6.3V		303 409 3426	CERAMIC	0.1U K	16V
	303 443 9214	CERAMIC	22U M	6.3V	C8317	303 453 8917	CERAMIC	0.1U K	16V
C5868	403 462 2910	EP-ELECT	330U M	4V		303 453 8610	CERAMIC	0.1U K	16V
C5869	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C8318	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C589	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C8319	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C6861	403 455 1012	CERAMIC	1U K	10V		303 409 3426	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V	C8321	303 453 8917	CERAMIC	0.1U K	16V
C7811	303 397 8219	CERAMIC	2.2U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C7812	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C8322	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C7813	303 381 5316	ELECT	100U M	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 369 3211	ELECT	100U M	16V	C8323	303 453 8917	CERAMIC	0.1U K	16V
C7814	303 381 5316	ELECT	100U M	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 369 3211	ELECT	100U M	16V		303 409 3426	CERAMIC	0.1U K	16V
C7817	303 453 8917	CERAMIC	0.1U K	16V	C8324	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C7818	303 454 1917	CERAMIC	4700P K	50V	C8325	403 455 1616	CERAMIC	10U K	16V
	303 379 7315	CERAMIC	4700P K	50V	C8326	303 453 8917	CERAMIC	0.1U K	16V
C7863	303 381 5316	ELECT	100U M	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 369 3211	ELECT	100U M	16V		303 409 3426	CERAMIC	0.1U K	16V
C7864	303 381 5316	ELECT	100U M	16V	C8327	303 453 8917	CERAMIC	0.1U K	16V
	303 369 3211	ELECT	100U M	16V		303 453 8610	CERAMIC	0.1U K	16V
C7868	303 454 1917	CERAMIC	4700P K	50V		303 409 3426	CERAMIC	0.1U K	16V
	303 379 7315	CERAMIC	4700P K	50V	C8328	303 453 8917	CERAMIC	0.1U K	16V
C8001	403 455 5317	CERAMIC	6800P K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 454 0118	CERAMIC	6800P K	50V		303 409 3426	CERAMIC	0.1U K	16V

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Key No.	Part No.	Description		
C8329	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8331	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8501	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8502	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8503	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8551	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8552	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8553	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8554	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8556	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8557	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8558	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8561	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8562	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8563	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8564	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8566	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8567	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8568	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8801	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8802	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8803	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C8804	403 455 1616	CERAMIC	10U K	16V
C8806	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C8807	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C8808	403 455 1616	CERAMIC	10U K	16V
C8811	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8812	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8813	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8814	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8816	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8817	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8818	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8819	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8820	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C8821	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8822	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8823	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8824	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8825	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8826	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8827	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8828	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8829	303 385 3219	TA-SOLID	10U K	10V
C8833	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8906	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C8908	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C9701	403 455 1616	CERAMIC	10U K	16V
C9702	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description		
C9703	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9882	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
RESISTER				
R1001	301 260 4115	MT-GLAZE	75 JA	1/3W
R1002	301 224 8814	MT-GLAZE	100 JA	1/16W
R1003	301 225 8110	MT-GLAZE	10 JA	1/16W
R1004	301 225 0312	MT-GLAZE	33 JA	1/16W
R1005	301 225 1814	MT-GLAZE	47 JA	1/16W
R1006	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1011	301 260 4115	MT-GLAZE	75 JA	1/3W
R1012	301 224 8814	MT-GLAZE	100 JA	1/16W
R1021	301 260 4115	MT-GLAZE	75 JA	1/3W
R1022	301 224 8814	MT-GLAZE	100 JA	1/16W
R1031	301 225 1418	MT-GLAZE	47K JA	1/16W
R1033	301 225 8110	MT-GLAZE	10 JA	1/16W
R1034	301 225 8110	MT-GLAZE	10 JA	1/16W
R1036	301 225 8110	MT-GLAZE	10 JA	1/16W
R1037	301 225 8110	MT-GLAZE	10 JA	1/16W
R1038	301 224 8814	MT-GLAZE	100 JA	1/16W
R1039	301 225 8110	MT-GLAZE	10 JA	1/16W
R1040	301 224 9316	MT-GLAZE	1K JA	1/16W
R1041	301 225 1418	MT-GLAZE	47K JA	1/16W
R1043	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1044	301 224 9019	MT-GLAZE	10K JA	1/16W
R1045	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1046	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1047	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1048	301 224 8814	MT-GLAZE	100 JA	1/16W
R1049	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1050	301 224 9316	MT-GLAZE	1K JA	1/16W
R1051	301 037 2818	MT-GLAZE	75 JA	1/8W
R1052	301 263 7420	MT-GLAZE	75 JA	1/16W
R1053	301 225 2019	MT-GLAZE	680 JA	1/16W
R1054	301 299 5312	MT-GLAZE	12K FA	1/16W
R1056	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1057	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1058	301 224 9316	MT-GLAZE	1K JA	1/16W
R1060	301 224 9316	MT-GLAZE	1K JA	1/16W
R1061	301 037 2818	MT-GLAZE	75 JA	1/8W
R1062	301 263 7420	MT-GLAZE	75 JA	1/16W
R1063	301 225 2019	MT-GLAZE	680 JA	1/16W
R1064	301 299 5312	MT-GLAZE	12K FA	1/16W
R1065	301 224 9316	MT-GLAZE	1K JA	1/16W
R1067	301 224 9019	MT-GLAZE	10K JA	1/16W
R1068	301 224 9019	MT-GLAZE	10K JA	1/16W
R1069	301 224 9316	MT-GLAZE	1K JA	1/16W
R1071	301 037 2818	MT-GLAZE	75 JA	1/8W
R1072	301 263 7420	MT-GLAZE	75 JA	1/16W
R1073	301 225 2019	MT-GLAZE	680 JA	1/16W
R1074	301 299 5312	MT-GLAZE	12K FA	1/16W
R1076	301 225 8110	MT-GLAZE	10 JA	1/16W
R1078	301 225 8110	MT-GLAZE	10 JA	1/16W
R1080	301 225 8110	MT-GLAZE	10 JA	1/16W
R1081	301 225 1418	MT-GLAZE	47K JA	1/16W
R1083	301 225 8110	MT-GLAZE	10 JA	1/16W
R1084	301 224 9316	MT-GLAZE	1K JA	1/16W
R1088	301 224 9316	MT-GLAZE	1K JA	1/16W
R1091	301 225 1418	MT-GLAZE	47K JA	1/16W
R1301	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1306	301 224 9316	MT-GLAZE	1K JA	1/16W
R1351	301 224 9019	MT-GLAZE	10K JA	1/16W
R1352	301 224 9019	MT-GLAZE	10K JA	1/16W
R1353	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1354	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1391	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1392	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1393	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1394	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1801	301 224 8814	MT-GLAZE	100 JA	1/16W
R1804	301 224 8814	MT-GLAZE	100 JA	1/16W
R1808	301 259 7823	MT-GLAZE	20K JA	1/16W
R1809	301 224 9019	MT-GLAZE	10K JA	1/16W
R1811	301 224 9019	MT-GLAZE	10K JA	1/16W
R1814	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1816	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1817	301 237 2915	MT-GLAZE	51 JA	1/16W
R1818	301 224 9415	MT-GLAZE	1M JA	1/16W
R1819	301 224 9019	MT-GLAZE	10K JA	1/16W
R1821	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1822	301 224 9019	MT-GLAZE	10K JA	1/16W
R1823	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1825	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1826	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1829	301 224 9019	MT-GLAZE	10K JA	1/16W
R1831	301 224 9019	MT-GLAZE	10K JA	1/16W
R1833	301 224 9019	MT-GLAZE	10K JA	1/16W
R1834	301 224 9019	MT-GLAZE	10K JA	1/16W
R1837	301 224 9019	MT-GLAZE	10K JA	1/16W
R1847	301 224 9019	MT-GLAZE	10K JA	1/16W
R1848	301 224 9019	MT-GLAZE	10K JA	1/16W
R1907	301 224 9316	MT-GLAZE	1K JA	1/16W
R1908	301 224 9316	MT-GLAZE	1K JA	1/16W
R1909	301 224 9316	MT-GLAZE	1K JA	1/16W
R1911	303 376 6212	CERAMIC	0.22U K	10V
R1913	303 376 6212	CERAMIC	0.22U K	10V
R1922	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
R1924	303 376 6212	CERAMIC	0.22U K	10V
R1925	303 376 6212	CERAMIC	0.22U K	10V
R1926	303 376 6212	CERAMIC	0.22U K	10V
R1930	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1931	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1932	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1939	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1940	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1943	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1944	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2002	301 224 8814	MT-GLAZE	100 JA	1/16W
R2005	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R2006	301 037 5116	MT-GLAZE	10 JA	1/10W
R2007	301 224 8814	MT-GLAZE	100 JA	1/16W
R2009	301 037 5116	MT-GLAZE	10 JA	1/10W
R2011	301 224 8814	MT-GLAZE	100 JA	1/16W
R2012	301 260 4115	MT-GLAZE	75 JA	1/3W
R2015	301 225 8011	MT-GLAZE	330 JA	1/16W
R2016	301 263 2316	MT-GLAZE	750 JA	1/16W
R2017	301 224 8814	MT-GLAZE	100 JA	1/16W
R2021	301 224 8814	MT-GLAZE	100 JA	1/16W
R2022	301 260 4115	MT-GLAZE	75 JA	1/3W
R2025	301 225 8011	MT-GLAZE	330 JA	1/16W
R2026	301 263 2316	MT-GLAZE	750 JA	1/16W
R2027	301 224 8814	MT-GLAZE	100 JA	1/16W
R2032	301 224 9019	MT-GLAZE	10K JA	1/16W
R2033	301 260 4115	MT-GLAZE	75 JA	1/3W
R2034	301 224 8814	MT-GLAZE	100 JA	1/16W
R2036	301 263 2316	MT-GLAZE	750 JA	1/16W
R2037	301 225 8011	MT-GLAZE	330 JA	1/16W
R2043	301 224 8814	MT-GLAZE	100 JA	1/16W

Electrical Parts List

Key No.	Part No.	Description
R2053	301 224 8814	MT-GLAZE 100 JA 1/16W
R243	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R245	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2501	945 044 9032	FILTER,EMI 2200PF
R2502	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2503	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2504	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2505	301 224 8814	MT-GLAZE 100 JA 1/16W
R2509	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2510	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2511	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2513	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2514	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2515	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2517	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2518	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2519	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2521	301 224 8913	MT-GLAZE 100K JA 1/16W
R2531	945 044 9032	FILTER,EMI 2200PF
R2532	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2533	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2534	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2535	301 224 8814	MT-GLAZE 100 JA 1/16W
R2536	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2537	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2540	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2551	301 224 8913	MT-GLAZE 100K JA 1/16W
R256	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2561	945 044 9032	FILTER,EMI 2200PF
R2562	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2563	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2564	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2565	301 224 8814	MT-GLAZE 100 JA 1/16W
R258	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2581	301 224 8913	MT-GLAZE 100K JA 1/16W
R259	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R261	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R262	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2890	301 224 9712	MT-GLAZE 22 JA 1/16W
R2891	301 224 9712	MT-GLAZE 22 JA 1/16W
R2892	301 224 8814	MT-GLAZE 100 JA 1/16W
R3002	301 224 8814	MT-GLAZE 100 JA 1/16W
R301	301 224 9316	MT-GLAZE 1K JA 1/16W
R3012	301 224 8814	MT-GLAZE 100 JA 1/16W
R302	301 224 9316	MT-GLAZE 1K JA 1/16W
R303	301 224 9316	MT-GLAZE 1K JA 1/16W
R304	301 224 9316	MT-GLAZE 1K JA 1/16W
R3051	301 224 8913	MT-GLAZE 100K JA 1/16W
R3052	301 224 8814	MT-GLAZE 100 JA 1/16W
R3053	301 224 8913	MT-GLAZE 100K JA 1/16W
R3054	301 224 8913	MT-GLAZE 100K JA 1/16W
R3056	301 224 9415	MT-GLAZE 1M JA 1/16W
R3057	301 224 9910	MT-GLAZE 22K JA 1/16W
R306	301 224 9712	MT-GLAZE 22 JA 1/16W
R3061	301 224 8913	MT-GLAZE 100K JA 1/16W
R3062	301 224 8814	MT-GLAZE 100 JA 1/16W
R307	301 224 9712	MT-GLAZE 22 JA 1/16W
R308	301 339 9515	MT-GLAZE 12.1K FA 1/10W
R311	301 224 9019	MT-GLAZE 10K JA 1/16W
R312	301 224 9019	MT-GLAZE 10K JA 1/16W
R314	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R321	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R322	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R324	301 256 3610	MT-GLAZE 15K JA 1/10W
R325	301 150 5918	MT-GLAZE 10K JA 1/10W
R326	301 256 6611	MT-GLAZE 68K JA 1/10W
R327	301 150 5918	MT-GLAZE 10K JA 1/10W
R328	301 256 6017	MT-GLAZE 27K JA 1/10W
R329	301 150 5918	MT-GLAZE 10K JA 1/10W
R334	301 225 8110	MT-GLAZE 10 JA 1/16W
R340	301 224 8814	MT-GLAZE 100 JA 1/16W
R344	301 224 8913	MT-GLAZE 100K JA 1/16W
R345	301 225 8110	MT-GLAZE 10 JA 1/16W
R347	301 224 8814	MT-GLAZE 100 JA 1/16W
R348	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R3502	301 225 1418	MT-GLAZE 47K JA 1/16W
R3503	301 224 8913	MT-GLAZE 100K JA 1/16W
R3505	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R3507	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R3509	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R3510	301 224 9019	MT-GLAZE 10K JA 1/16W
R352	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R353	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R3532	301 225 1418	MT-GLAZE 47K JA 1/16W
R3533	301 224 8913	MT-GLAZE 100K JA 1/16W
R3535	945 044 9032	FILTER,EMI 2200PF
R356	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R3562	301 225 1418	MT-GLAZE 47K JA 1/16W
R3563	301 224 8913	MT-GLAZE 100K JA 1/16W
R3580	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
R3585	301 224 9019	MT-GLAZE 10K JA 1/16W
R3586	301 224 9316	MT-GLAZE 1K JA 1/16W
R3587	301 224 9019	MT-GLAZE 10K JA 1/16W
R3588	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R3601	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R3602	301 224 9019	MT-GLAZE 10K JA 1/16W
R3603	301 224 9019	MT-GLAZE 10K JA 1/16W
R361	301 339 9614	MT-GLAZE 23.2K FA 1/10W
R362	301 302 3410	MT-GLAZE 13K JA 1/16W
R3621	301 224 9019	MT-GLAZE 10K JA 1/16W
R3622	301 224 9019	MT-GLAZE 10K JA 1/16W
R3623	301 224 9019	MT-GLAZE 10K JA 1/16W
R3624	301 224 9019	MT-GLAZE 10K JA 1/16W
R3626	301 224 9019	MT-GLAZE 10K JA 1/16W
R3627	301 224 9019	MT-GLAZE 10K JA 1/16W
R371	301 225 8110	MT-GLAZE 10 JA 1/16W
R372	301 224 9415	MT-GLAZE 1M JA 1/16W
R373	301 225 8110	MT-GLAZE 10 JA 1/16W
R374	301 225 8110	MT-GLAZE 10 JA 1/16W
R375	301 225 8110	MT-GLAZE 10 JA 1/16W
R376	301 225 8110	MT-GLAZE 10 JA 1/16W
R377	301 225 8110	MT-GLAZE 10 JA 1/16W
R378	301 225 8110	MT-GLAZE 10 JA 1/16W
R3801	301 225 8110	MT-GLAZE 10 JA 1/16W
R3802	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R3803	301 225 8110	MT-GLAZE 10 JA 1/16W
R3804	301 225 8110	MT-GLAZE 10 JA 1/16W
R3805	301 224 9019	MT-GLAZE 10K JA 1/16W
R3806	301 225 8110	MT-GLAZE 10 JA 1/16W
R3807	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R3808	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R381	301 263 7420	MT-GLAZE 75 JA 1/16W
R391	301 224 9316	MT-GLAZE 1K JA 1/16W
R392	301 224 9019	MT-GLAZE 10K JA 1/16W
R4001	301 224 8814	MT-GLAZE 100 JA 1/16W
R401	301 224 8814	MT-GLAZE 100 JA 1/16W
R4014	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R4016	301 224 9514	MT-GLAZE 2.2K JA 1/16W
R4017	301 224 9514	MT-GLAZE 2.2K JA 1/16W
R402	301 224 8814	MT-GLAZE 100 JA 1/16W
R4023	301 224 9019	MT-GLAZE 10K JA 1/16W
R4024	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R403	301 224 8814	MT-GLAZE 100 JA 1/16W
R406	301 226 1516	MT-GLAZE 0.000 ZA 1/16W

Electrical Parts List

Key No.	Part No.	Description
R407	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R4072	301 224 8814	MT-GLAZE 100 JA 1/16W
R4077	301 224 8814	MT-GLAZE 100 JA 1/16W
R408	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R410	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R412	301 225 1814	MT-GLAZE 47 JA 1/16W
R414	301 225 1814	MT-GLAZE 47 JA 1/16W
R416	301 225 1814	MT-GLAZE 47 JA 1/16W
R418	301 225 1814	MT-GLAZE 47 JA 1/16W
R419	301 225 1814	MT-GLAZE 47 JA 1/16W
R422	301 225 1814	MT-GLAZE 47 JA 1/16W
R423	301 225 1814	MT-GLAZE 47 JA 1/16W
R424	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R425	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R426	301 224 9019	MT-GLAZE 10K JA 1/16W
R427	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R4834	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R4860	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R4861	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R4862	301 037 5215	MT-GLAZE 100 JA 1/10W
R4863	301 229 3913	MT-GLAZE 180 JA 1/16W
R5001	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
R5002	301 225 8110	MT-GLAZE 10 JA 1/16W
R5003	301 225 8110	MT-GLAZE 10 JA 1/16W
R5004	301 224 8913	MT-GLAZE 100K JA 1/16W
R5005	301 224 8913	MT-GLAZE 100K JA 1/16W
R5006	301 224 8913	MT-GLAZE 100K JA 1/16W
R5007	301 224 8913	MT-GLAZE 100K JA 1/16W
R5031	301 224 8814	MT-GLAZE 100 JA 1/16W
R5032	301 224 8814	MT-GLAZE 100 JA 1/16W
R5033	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R5034	301 224 9316	MT-GLAZE 1K JA 1/16W
R5036	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R5037	301 224 9316	MT-GLAZE 1K JA 1/16W
R5039	301 229 7218	MT-GLAZE 18K JA 1/16W
R5040	301 224 9019	MT-GLAZE 10K JA 1/16W
R5041	301 224 9316	MT-GLAZE 1K JA 1/16W
R5042	301 224 9316	MT-GLAZE 1K JA 1/16W
R5044	301 224 9019	MT-GLAZE 10K JA 1/16W
R5046	301 224 9019	MT-GLAZE 10K JA 1/16W
R5047	301 224 9613	MT-GLAZE 2.7K JA 1/16W
R5048	301 224 9316	MT-GLAZE 1K JA 1/16W
R5051	301 224 9019	MT-GLAZE 10K JA 1/16W
R5052	301 224 9910	MT-GLAZE 22K JA 1/16W
R5053	301 224 9910	MT-GLAZE 22K JA 1/16W
R506	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5061	301 224 9316	MT-GLAZE 1K JA 1/16W
R5062	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R5063	301 224 9316	MT-GLAZE 1K JA 1/16W
R5064	301 224 9316	MT-GLAZE 1K JA 1/16W
R5066	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R5067	301 224 9316	MT-GLAZE 1K JA 1/16W
R5069	301 225 8011	MT-GLAZE 330 JA 1/16W
R507	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5082	301 224 9316	MT-GLAZE 1K JA 1/16W
R5084	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R5086	301 224 9019	MT-GLAZE 10K JA 1/16W
R5087	301 224 9019	MT-GLAZE 10K JA 1/16W
R5088	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R510	301 294 3115	MT-GLAZE 1K FA 1/16W
R511	301 225 8110	MT-GLAZE 10 JA 1/16W
R519	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R520	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R521	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5213	301 224 8814	MT-GLAZE 100 JA 1/16W
R5214	301 224 8814	MT-GLAZE 100 JA 1/16W
R5215	301 224 8814	MT-GLAZE 100 JA 1/16W
R5216	301 224 8814	MT-GLAZE 100 JA 1/16W
R522	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5317	301 225 1814	MT-GLAZE 47 JA 1/16W
R5318	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R5331	301 240 9710	MT-GLAZE 820K JA 1/16W
R5332	301 224 9316	MT-GLAZE 1K JA 1/16W
R5333	301 224 9316	MT-GLAZE 1K JA 1/16W
R5334	301 224 9019	MT-GLAZE 10K JA 1/16W
R5336	301 224 9316	MT-GLAZE 1K JA 1/16W
R5337	301 224 9316	MT-GLAZE 1K JA 1/16W
R5338	301 226 2414	MT-GLAZE 560 JA 1/16W
R5342	301 225 0718	MT-GLAZE 56K JA 1/16W
R5343	301 224 9316	MT-GLAZE 1K JA 1/16W
R536	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R537	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R540	301 294 3115	MT-GLAZE 1K FA 1/16W
R541	301 225 8110	MT-GLAZE 10 JA 1/16W
R549	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R550	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R551	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R552	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5601	301 224 9316	MT-GLAZE 1K JA 1/16W
R5602	301 224 8913	MT-GLAZE 100K JA 1/16W
R5603	307 210 5416	DIODE RB551V-30-TE-17
R5611	301 224 8814	MT-GLAZE 100 JA 1/16W
R5612	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R5622	301 218 8615	MT-GLAZE 5.6 JA 1W
R5623	301 190 1710	MT-GLAZE 0.000 ZA 1W
R5624	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
R5625	301 198 7516	MT-GLAZE 15 JA 1W
R5626	301 198 7516	MT-GLAZE 15 JA 1W
R5641	301 224 9316	MT-GLAZE 1K JA 1/16W
R5642	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R566	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R567	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R570	301 294 3115	MT-GLAZE 1K FA 1/16W
R571	301 225 8110	MT-GLAZE 10 JA 1/16W
R5751	301 224 9019	MT-GLAZE 10K JA 1/16W
R5752	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5753	301 224 9316	MT-GLAZE 1K JA 1/16W
R5754	301 224 9019	MT-GLAZE 10K JA 1/16W
R579	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R580	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R581	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R582	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5821	301 225 2118	MT-GLAZE 12K JA 1/16W
R5822	301 224 8913	MT-GLAZE 100K JA 1/16W
R5823	301 294 3016	MT-GLAZE 10K FA 1/16W
R5824	301 294 3511	MT-GLAZE 27K FA 1/16W
R5841	301 294 3016	MT-GLAZE 10K FA 1/16W
R586	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5861	301 234 9917	MT-GLAZE 6.8K JA 1/16W
R5863	301 294 3016	MT-GLAZE 10K FA 1/16W
R5864	301 294 3016	MT-GLAZE 10K FA 1/16W
R5866	301 224 8913	MT-GLAZE 100K JA 1/16W
R587	301 224 9019	MT-GLAZE 10K JA 1/16W
R590	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R593	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R594	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R596	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R6803	301 224 9019	MT-GLAZE 10K JA 1/16W
R6804	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R6812	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R6813	301 224 9019	MT-GLAZE 10K JA 1/16W
R6822	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R6823	301 224 9019	MT-GLAZE 10K JA 1/16W
R6831	301 226 1516	MT-GLAZE 0.000 ZA 1/16W

Electrical Parts List

Key No.	Part No.	Description
R6832	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R6836	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R6837	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R6838	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R6839	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R6841	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R6842	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R6843	301 229 3913	MT-GLAZE 180 JA 1/16W
R6846	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R6847	301 229 3913	MT-GLAZE 180 JA 1/16W
R6848	301 225 8011	MT-GLAZE 330 JA 1/16W
R6849	301 225 8011	MT-GLAZE 330 JA 1/16W
R6851	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R6853	301 229 3913	MT-GLAZE 180 JA 1/16W
R6854	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R6857	301 229 3913	MT-GLAZE 180 JA 1/16W
R6858	301 229 3913	MT-GLAZE 180 JA 1/16W
R6859	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R6862	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R6863	301 224 9019	MT-GLAZE 10K JA 1/16W
R6864	301 225 0718	MT-GLAZE 56K JA 1/16W
R7803	301 224 9019	MT-GLAZE 10K JA 1/16W
R7805	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7816	301 225 8110	MT-GLAZE 10 JA 1/16W
R7818	301 294 3016	MT-GLAZE 10K FA 1/16W
R7819	301 224 8913	MT-GLAZE 100K JA 1/16W
R7821	301 294 3511	MT-GLAZE 27K FA 1/16W
R7824	301 294 2811	MT-GLAZE 2.2K FA 1/16W
R7828	301 224 9019	MT-GLAZE 10K JA 1/16W
R7829	301 224 9316	MT-GLAZE 1K JA 1/16W
R7831	301 224 9316	MT-GLAZE 1K JA 1/16W
R7832	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7833	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R7834	301 286 4717	MT-GLAZE 30K JA 1/16W
R7866	301 225 8110	MT-GLAZE 10 JA 1/16W
R7869	301 224 8913	MT-GLAZE 100K JA 1/16W
R7871	301 294 3511	MT-GLAZE 27K FA 1/16W
R7874	301 294 2811	MT-GLAZE 2.2K FA 1/16W
R7878	301 224 9019	MT-GLAZE 10K JA 1/16W
R7879	301 224 9316	MT-GLAZE 1K JA 1/16W
R7881	301 224 9316	MT-GLAZE 1K JA 1/16W
R7882	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7883	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R7884	301 286 4717	MT-GLAZE 30K JA 1/16W
R8003	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8006	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8007	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R801	301 224 9019	MT-GLAZE 10K JA 1/16W
R8013	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8019	301 341 0616	MT-GLAZE 49.9 FA 1/16W
R8021	301 341 0616	MT-GLAZE 49.9 FA 1/16W
R8023	301 341 0616	MT-GLAZE 49.9 FA 1/16W
R8024	301 341 0616	MT-GLAZE 49.9 FA 1/16W
R8026	301 326 1515	MT-GLAZE 10 FA 1/16W
R8028	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R804	301 224 9019	MT-GLAZE 10K JA 1/16W
R806	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R807	301 224 9019	MT-GLAZE 10K JA 1/16W
R808	301 224 9019	MT-GLAZE 10K JA 1/16W
R809	301 225 8516	MT-GLAZE 1.8K JA 1/16W
R812	301 224 9316	MT-GLAZE 1K JA 1/16W
R813	301 224 9316	MT-GLAZE 1K JA 1/16W
R8303	301 224 9019	MT-GLAZE 10K JA 1/16W
R8304	301 224 9019	MT-GLAZE 10K JA 1/16W
R8306	301 224 9019	MT-GLAZE 10K JA 1/16W
R8308	301 224 9019	MT-GLAZE 10K JA 1/16W
R8309	301 224 9019	MT-GLAZE 10K JA 1/16W
R8322	301 224 9019	MT-GLAZE 10K JA 1/16W
R8331	301 224 9019	MT-GLAZE 10K JA 1/16W
R8338	301 224 9019	MT-GLAZE 10K JA 1/16W
R8353	301 224 9019	MT-GLAZE 10K JA 1/16W
R8354	301 224 9019	MT-GLAZE 10K JA 1/16W
R8357	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8358	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8359	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8361	301 224 9019	MT-GLAZE 10K JA 1/16W
R8362	301 224 9019	MT-GLAZE 10K JA 1/16W
R8363	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8364	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8366	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8381	301 224 9019	MT-GLAZE 10K JA 1/16W
R8403	301 224 9019	MT-GLAZE 10K JA 1/16W
R8417	301 224 9019	MT-GLAZE 10K JA 1/16W
R8418	301 224 9019	MT-GLAZE 10K JA 1/16W
R8452	301 224 9712	MT-GLAZE 22 JA 1/16W
R8453	301 224 9019	MT-GLAZE 10K JA 1/16W
R8456	301 224 9019	MT-GLAZE 10K JA 1/16W
R8457	301 224 9019	MT-GLAZE 10K JA 1/16W
R8458	301 224 9019	MT-GLAZE 10K JA 1/16W
R8459	301 224 9019	MT-GLAZE 10K JA 1/16W
R8463	301 224 9712	MT-GLAZE 22 JA 1/16W
R8464	301 224 9712	MT-GLAZE 22 JA 1/16W
R8465	301 224 9712	MT-GLAZE 22 JA 1/16W
R8466	301 224 9712	MT-GLAZE 22 JA 1/16W
R8467	301 224 9712	MT-GLAZE 22 JA 1/16W
R8468	301 224 9019	MT-GLAZE 10K JA 1/16W
R8469	301 224 9019	MT-GLAZE 10K JA 1/16W
R8472	301 224 9019	MT-GLAZE 10K JA 1/16W
R8474	301 224 9019	MT-GLAZE 10K JA 1/16W
R8476	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8477	301 224 8913	MT-GLAZE 100K JA 1/16W
R8478	301 224 9019	MT-GLAZE 10K JA 1/16W
R8479	301 224 9019	MT-GLAZE 10K JA 1/16W
R8481	301 224 9019	MT-GLAZE 10K JA 1/16W
R8484	301 224 9019	MT-GLAZE 10K JA 1/16W
R8492	301 224 9019	MT-GLAZE 10K JA 1/16W
R8496	301 224 9019	MT-GLAZE 10K JA 1/16W
R8503	301 224 9019	MT-GLAZE 10K JA 1/16W
R8504	301 224 9019	MT-GLAZE 10K JA 1/16W
R8506	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8507	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8508	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8564	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8567	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8569	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8574	301 224 9712	MT-GLAZE 22 JA 1/16W
R8701	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8702	301 224 9019	MT-GLAZE 10K JA 1/16W
R8703	301 224 9019	MT-GLAZE 10K JA 1/16W
R8704	301 224 9019	MT-GLAZE 10K JA 1/16W
R8706	301 224 9019	MT-GLAZE 10K JA 1/16W
R8801	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8802	301 224 9415	MT-GLAZE 1M JA 1/16W
R8803	301 299 5312	MT-GLAZE 12K FA 1/16W
R8804	301 224 9019	MT-GLAZE 10K JA 1/16W
R8806	301 294 3115	MT-GLAZE 1K FA 1/16W
R8807	301 224 9019	MT-GLAZE 10K JA 1/16W
R8808	301 294 3016	MT-GLAZE 10K FA 1/16W
R8809	401 345 8011	MT-GLAZE 12.4K FA 1/16W
R8811	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8812	301 225 8110	MT-GLAZE 10 JA 1/16W
R8813	301 225 8110	MT-GLAZE 10 JA 1/16W
R8814	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8821	301 225 8110	MT-GLAZE 10 JA 1/16W

Electrical Parts List

Key No.	Part No.	Description
R8822	301 225 8110	MT-GLAZE 10 JA 1/16W
R8831	301 225 8110	MT-GLAZE 10 JA 1/16W
R8832	301 225 8110	MT-GLAZE 10 JA 1/16W
R8867	301 225 8011	MT-GLAZE 330 JA 1/16W
R8868	301 225 8011	MT-GLAZE 330 JA 1/16W
R8869	301 224 9712	MT-GLAZE 22 JA 1/16W
R8871	301 224 9712	MT-GLAZE 22 JA 1/16W
R8872	301 224 9712	MT-GLAZE 22 JA 1/16W
R8901	945 086 5368	IMPEDANCE,220 OHM P
R8902	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R8903	301 264 9215	MT-GLAZE 330 FA 1/10W
R8904	301 294 3115	MT-GLAZE 1K FA 1/16W
R8905	301 225 0312	MT-GLAZE 33 JA 1/16W
R8906	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R891	301 224 8814	MT-GLAZE 100 JA 1/16W
R8911	945 086 5368	IMPEDANCE,220 OHM P
R8921	945 086 5368	IMPEDANCE,220 OHM P
R898	301 224 8814	MT-GLAZE 100 JA 1/16W
R9607	301 224 9019	MT-GLAZE 10K JA 1/16W
R9701	301 224 9316	MT-GLAZE 1K JA 1/16W
R9702	301 224 9316	MT-GLAZE 1K JA 1/16W
R9703	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9705	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9706	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9715	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9732	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9734	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9883	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
RB2502	945 037 0817	R-NETWORK 0X4 1/16W
RB2503	945 037 0817	R-NETWORK 0X4 1/16W
RB2504	945 037 0817	R-NETWORK 0X4 1/16W
RB301	945 037 0831	R-NETWORK 47X4 1/16W
RB302	945 037 0831	R-NETWORK 47X4 1/16W
RB303	945 037 0831	R-NETWORK 47X4 1/16W
RB304	945 037 0831	R-NETWORK 47X4 1/16W
RB306	945 037 0831	R-NETWORK 47X4 1/16W
RB307	945 037 0831	R-NETWORK 47X4 1/16W
RB308	945 037 0831	R-NETWORK 47X4 1/16W
RB309	945 037 0831	R-NETWORK 47X4 1/16W
RB411	945 037 0831	R-NETWORK 47X4 1/16W
RB412	945 037 0831	R-NETWORK 47X4 1/16W
RB413	945 037 0831	R-NETWORK 47X4 1/16W
RB414	945 037 0831	R-NETWORK 47X4 1/16W
RB416	945 037 0831	R-NETWORK 47X4 1/16W
RB417	945 037 0831	R-NETWORK 47X4 1/16W
RB418	945 037 0831	R-NETWORK 47X4 1/16W
RB419	945 037 0831	R-NETWORK 47X4 1/16W
RB421	945 037 0831	R-NETWORK 47X4 1/16W
RB422	945 037 0831	R-NETWORK 47X4 1/16W
RB423	945 037 0831	R-NETWORK 47X4 1/16W
RB424	945 037 0831	R-NETWORK 47X4 1/16W
RB426	945 037 0831	R-NETWORK 47X4 1/16W
RB427	945 037 0831	R-NETWORK 47X4 1/16W
RB428	945 037 0831	R-NETWORK 47X4 1/16W
RB429	945 037 0831	R-NETWORK 47X4 1/16W
RB431	945 037 0831	R-NETWORK 47X4 1/16W
RB432	945 037 0831	R-NETWORK 47X4 1/16W
RB433	945 037 0831	R-NETWORK 47X4 1/16W
RB434	945 037 0831	R-NETWORK 47X4 1/16W
RB436	945 037 0831	R-NETWORK 47X4 1/16W
RB437	945 037 0831	R-NETWORK 47X4 1/16W
RB501	645 071 9592	R-NETWORK 0X4 1/32W
	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB502	645 071 9592	R-NETWORK 0X4 1/32W
	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB503	645 071 9592	R-NETWORK 0X4 1/32W
	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB531	645 071 9592	R-NETWORK 0X4 1/32W
	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB532	645 071 9592	R-NETWORK 0X4 1/32W
	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB533	645 071 9592	R-NETWORK 0X4 1/32W
	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB561	645 071 9592	R-NETWORK 0X4 1/32W
	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB562	645 071 9592	R-NETWORK 0X4 1/32W
	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB563	645 071 9592	R-NETWORK 0X4 1/32W
	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB8301	945 037 0824	R-NETWORK 22X4 1/16W
RB8302	945 037 0824	R-NETWORK 22X4 1/16W
RB8303	945 037 0824	R-NETWORK 22X4 1/16W
RB8304	945 037 0824	R-NETWORK 22X4 1/16W
RB8306	945 037 0824	R-NETWORK 22X4 1/16W
RB8307	945 037 0824	R-NETWORK 22X4 1/16W
RB8308	945 037 0824	R-NETWORK 22X4 1/16W
RB8309	945 037 0824	R-NETWORK 22X4 1/16W
RB8311	945 037 0824	R-NETWORK 22X4 1/16W
RB8312	945 037 0824	R-NETWORK 22X4 1/16W
RB8313	945 037 0824	R-NETWORK 22X4 1/16W
RB8314	945 037 0824	R-NETWORK 22X4 1/16W
RB8316	945 037 0824	R-NETWORK 22X4 1/16W
RB8317	945 037 0824	R-NETWORK 22X4 1/16W
RB8318	945 037 0824	R-NETWORK 22X4 1/16W
RB8319	945 028 0710	R-NETWORK 10KX4 1/16W
RB8321	945 037 0824	R-NETWORK 22X4 1/16W
RB8322	945 028 0710	R-NETWORK 10KX4 1/16W
RB8323	945 037 0824	R-NETWORK 22X4 1/16W
RB8324	945 037 0824	R-NETWORK 22X4 1/16W
RB8325	945 037 0824	R-NETWORK 22X4 1/16W
RB8326	945 037 0824	R-NETWORK 22X4 1/16W
RB8327	945 028 0710	R-NETWORK 10KX4 1/16W
RB8328	945 037 0824	R-NETWORK 22X4 1/16W
RB8329	945 037 0824	R-NETWORK 22X4 1/16W
RB8330	945 037 0824	R-NETWORK 22X4 1/16W
RB8331	945 037 0824	R-NETWORK 22X4 1/16W
RB8332	945 028 0710	R-NETWORK 10KX4 1/16W
RB8801	945 037 0824	R-NETWORK 22X4 1/16W
RB8802	945 037 0824	R-NETWORK 22X4 1/16W
RB8803	945 037 0824	R-NETWORK 22X4 1/16W
RB8804	945 037 0824	R-NETWORK 22X4 1/16W
RB8806	945 037 0824	R-NETWORK 22X4 1/16W
RB8807	945 037 0824	R-NETWORK 22X4 1/16W
RB8808	945 037 0824	R-NETWORK 22X4 1/16W
RB8809	945 037 0824	R-NETWORK 22X4 1/16W
RB8811	945 037 0824	R-NETWORK 22X4 1/16W
RB8812	945 037 0824	R-NETWORK 22X4 1/16W
RB9731	945 028 0710	R-NETWORK 10KX4 1/16W
COIL		
L1002	945 086 7577	FILTER,EMI 400MHZ
L1012	945 086 7577	FILTER,EMI 400MHZ
L1022	945 086 7577	FILTER,EMI 400MHZ
L1031	945 086 7560	FILTER,EMI 200MHZ
L1041	945 086 7560	FILTER,EMI 200MHZ

Electrical Parts List

Key No.	Part No.	Description
L1051	945 086 7577	FILTER,EMI 400MHZ
L1061	945 086 7577	FILTER,EMI 400MHZ
L1071	945 086 7577	FILTER,EMI 400MHZ
L1081	945 086 7560	FILTER,EMI 200MHZ
L1091	945 086 7560	FILTER,EMI 200MHZ
L1801	945 041 1978	INDUCTOR,330 OHM
L1802	945 059 1748	INDUCTOR,2.2U J
L1803	945 059 1748	INDUCTOR,2.2U J
L1839	945 041 1978	INDUCTOR,330 OHM
L2011	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L2012	945 068 8318	FILTER,EMI 100MHZ
L2021	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L2022	945 068 8318	FILTER,EMI 100MHZ
L2031	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L2032	945 068 8318	FILTER,EMI 100MHZ
L2041	945 068 8325	FILTER,EMI 20MHZ
L2051	945 068 8325	FILTER,EMI 20MHZ
L2501	945 041 1978	INDUCTOR,330 OHM
L2502	945 041 1978	INDUCTOR,330 OHM
L2531	945 041 1978	INDUCTOR,330 OHM
L2532	945 041 1978	INDUCTOR,330 OHM
L2561	945 041 1978	INDUCTOR,330 OHM
L2562	945 041 1978	INDUCTOR,330 OHM
L3002	945 068 8325	FILTER,EMI 20MHZ
L3011	945 068 8325	FILTER,EMI 20MHZ
L3051	945 068 8325	FILTER,EMI 20MHZ
L3061	945 068 8325	FILTER,EMI 20MHZ
L3081	945 068 8325	FILTER,EMI 20MHZ
L3082	945 068 8325	FILTER,EMI 20MHZ
L341	945 086 5368	IMPEDANCE,220 OHM P
L351	945 086 5368	IMPEDANCE,220 OHM P
L352	945 086 5368	IMPEDANCE,220 OHM P
L353	945 086 5368	IMPEDANCE,220 OHM P
L3534	945 041 2210	INDUCTOR,0.12U K
L354	945 086 5368	IMPEDANCE,220 OHM P
L356	945 086 5368	IMPEDANCE,220 OHM P
L357	945 086 5368	IMPEDANCE,220 OHM P
L361	945 086 5368	IMPEDANCE,220 OHM P
L362	945 086 5368	IMPEDANCE,220 OHM P
L363	945 086 5368	IMPEDANCE,220 OHM P
L366	945 086 5368	IMPEDANCE,220 OHM P
L368	945 086 5368	IMPEDANCE,220 OHM P
L402	945 041 1978	INDUCTOR,330 OHM
L4809	945 018 9327	INDUCTOR,1000 OHM
L4811	945 018 9327	INDUCTOR,1000 OHM
L4812	945 086 5368	IMPEDANCE,220 OHM P
L4814	945 018 9327	INDUCTOR,1000 OHM
L4861	945 086 5368	IMPEDANCE,220 OHM P
L4862	945 086 5368	IMPEDANCE,220 OHM P
L501	945 041 1978	INDUCTOR,330 OHM
L531	945 041 1978	INDUCTOR,330 OHM
L5331	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5332	945 032 8344	INDUCTOR,39U J
L5602	645 089 2677	FILTER,EMI 1500PF
L5604	645 089 2677	FILTER,EMI 1500PF
L5606	645 089 2677	FILTER,EMI 1500PF
L5609	645 089 2677	FILTER,EMI 1500PF
L561	945 041 1978	INDUCTOR,330 OHM
L5663	945 041 1978	INDUCTOR,330 OHM
L5702	945 041 1978	INDUCTOR,330 OHM
L5704	945 036 3895	INDUCTOR,220 OHM
L5821	945 062 2930	INDUCTOR,10U M
L5822	945 041 1978	INDUCTOR,330 OHM
L5827	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5828	945 041 1978	INDUCTOR,330 OHM
L5842	945 041 1978	INDUCTOR,330 OHM
L5848	945 041 1978	INDUCTOR,330 OHM
L5861	945 062 2930	INDUCTOR,10U M
L5862	945 041 1978	INDUCTOR,330 OHM
L5867	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5868	945 041 1978	INDUCTOR,330 OHM
L6861	945 086 5368	IMPEDANCE,220 OHM P
L7811	945 062 2855	INDUCTOR,33U M
L7861	945 062 2855	INDUCTOR,33U M
L8801	945 062 2824	INDUCTOR,3.3U M
DIODE		
D1041	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D1042	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D1091	307 205 5216	DIODE RB521S-30-TE61
D1092	307 205 5216	DIODE RB521S-30-TE61
D2002	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D2881	307 222 5916	ZENER DIODE UDZS3.6B-TE-17
D2891	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D2892	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D3051	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3501	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3601	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3602	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3606	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3611	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3613	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3614	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3617	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3621	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3622	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3623	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3624	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3626	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3627	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D4812	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D4813	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D5061	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5062	307 235 0816	DIODE 1SS387 TPL3

Electrical Parts List

Key No.	Part No.	Description
	307 210 1923	DIODE 1SS400 TE-61
D5622	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5623	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5624	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5751	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3
	307 209 4512	ZD UDZS-TE-176.8B
D6831	307 209 7513	LED SML-210YT T86 L
D6832	307 203 7816	LED SML-210LT T86 M
D6833	307 222 4810	LED SML-521MUW T86
D6841	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D6842	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D6843	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D6844	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
	408 063 7507	ZENER DIODE MM3Z6V2B
D7812	307 254 2716	DIODE CMS16
D7862	307 254 2716	DIODE CMS16
D8902	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D8903	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D8904	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D8906	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D9701	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
MISCELLANEOUS		
FB2881	945 041 1978	INDUCTOR,330 OHM
FB2882	945 041 1978	INDUCTOR,330 OHM
FB2883	945 041 1978	INDUCTOR,330 OHM
FB2884	945 041 1978	INDUCTOR,330 OHM
FB2885	945 041 1978	INDUCTOR,330 OHM
FB2886	945 041 1978	INDUCTOR,330 OHM
FB2887	945 041 1978	INDUCTOR,330 OHM
FB2888	945 041 1978	INDUCTOR,330 OHM
FB2891	945 041 1978	INDUCTOR,330 OHM
FB3621	945 041 1978	INDUCTOR,330 OHM
FB3622	945 041 1978	INDUCTOR,330 OHM
FB3623	945 041 1978	INDUCTOR,330 OHM
FB3624	945 041 1978	INDUCTOR,330 OHM
FB3626	945 041 1978	INDUCTOR,330 OHM
FB3627	945 041 1978	INDUCTOR,330 OHM
K10A	952 001 8601	SOCKET,D-SUB 15P
K10B	952 001 8571	SOCKET,D-SUB 15P
K20A	945 076 2735	JACK,RCA-2
	952 001 9585	JACK,RCA-2
K20B	945 067 6124	TERMINAL,BOARD
	952 001 7932	TERMINAL, BOARD
K30B	945 076 2742	JACK,PHON D3.6
	652 002 1808	JACK,PHONE D3.6
	652 002 4847	JACK,PHONE D3.6
K40B	945 078 1613	SOCKET,DIN 8P
	952 001 8427	SOCKET,DIN 8P
K9602	645 093 6760	TRANS,PULSE
SC1031	945 076 3503	SURGE-ABSORBER
SC1041	945 076 3503	SURGE-ABSORBER
SC1081	945 076 3503	SURGE-ABSORBER
SC1091	945 076 3503	SURGE-ABSORBER
SC2011	945 076 3503	SURGE-ABSORBER
SC2021	945 076 3503	SURGE-ABSORBER
SC2031	945 076 3503	SURGE-ABSORBER
SC2041	945 076 3503	SURGE-ABSORBER
SC2051	945 076 3503	SURGE-ABSORBER
SC3001	945 076 3503	SURGE-ABSORBER
SC3011	945 076 3503	SURGE-ABSORBER
SC3051	945 076 3503	SURGE-ABSORBER
SC3061	945 076 3503	SURGE-ABSORBER
SC3081	945 076 3503	SURGE-ABSORBER
SC3082	945 076 3503	SURGE-ABSORBER
SC5053	945 076 3503	SURGE-ABSORBER
SC5054	945 076 3503	SURGE-ABSORBER
SC5607	945 076 3503	SURGE-ABSORBER
SC5608	945 076 3503	SURGE-ABSORBER
X1801	945 076 0311	OSC,CRYSTAL 48MHZ
X341	945 088 7179	OSC,CRYSTAL 27.0MHZ
X8301	945 037 4600	OSC,CRYSTAL 32.768KHZ
X8801	945 083 7556	OSC,CRYSTAL 25.0MHZ

PACKING MATERIALS

	610 342 7638	SPACER LENS-KM5AC
	610 344 4444	SPACER LENS BTM-KM5AC
	610 342 9243	CARTON CASE-KM5YC (For KM5-2000)
	610 342 3899	CARTON CASE-KM5YC (For KM5-20(S)00)
	610 340 0280	POLY BAG-LK6AC
	610 332 2759	CUSHION SPACER-LK6AC
	610 334 5666	CUSHION SPACER TOP-LK6AC
	610 334 5765	CUSHION SPACER BTM-LK6AC
	610 334 5758	CUSHION SPACER FB-LK6AC
	610 334 5826	CUSHION SPACER LR-LK6AC
	610 334 5734	CUSHION SPACER LNS SIDE-LK6AC
	610 332 8386	LENS CAUTION CARD-LK6A
	645 098 1906	POLY BAG-0550X0600*NC*R8P
	655 002 0109	SPACER SHEET-LK6AC
	655 002 6910	SPACER SHEET-KM5AC

ACCESSORIES

OWNER'S MANUAL

	610 342 8000	CD-ROM(PJ NW MANAGER)
	610 345 2616	CD-ROM,OWNERS MANUAL-KM5YC-A
	655 002 8532	SETUP INST-KM5YC

REMOTE CONTROL

	645 098 2163	ASSY,REMOCON CXZW
	910 321 4482	RC-BATTERY LID-CXTJ

AC CORD

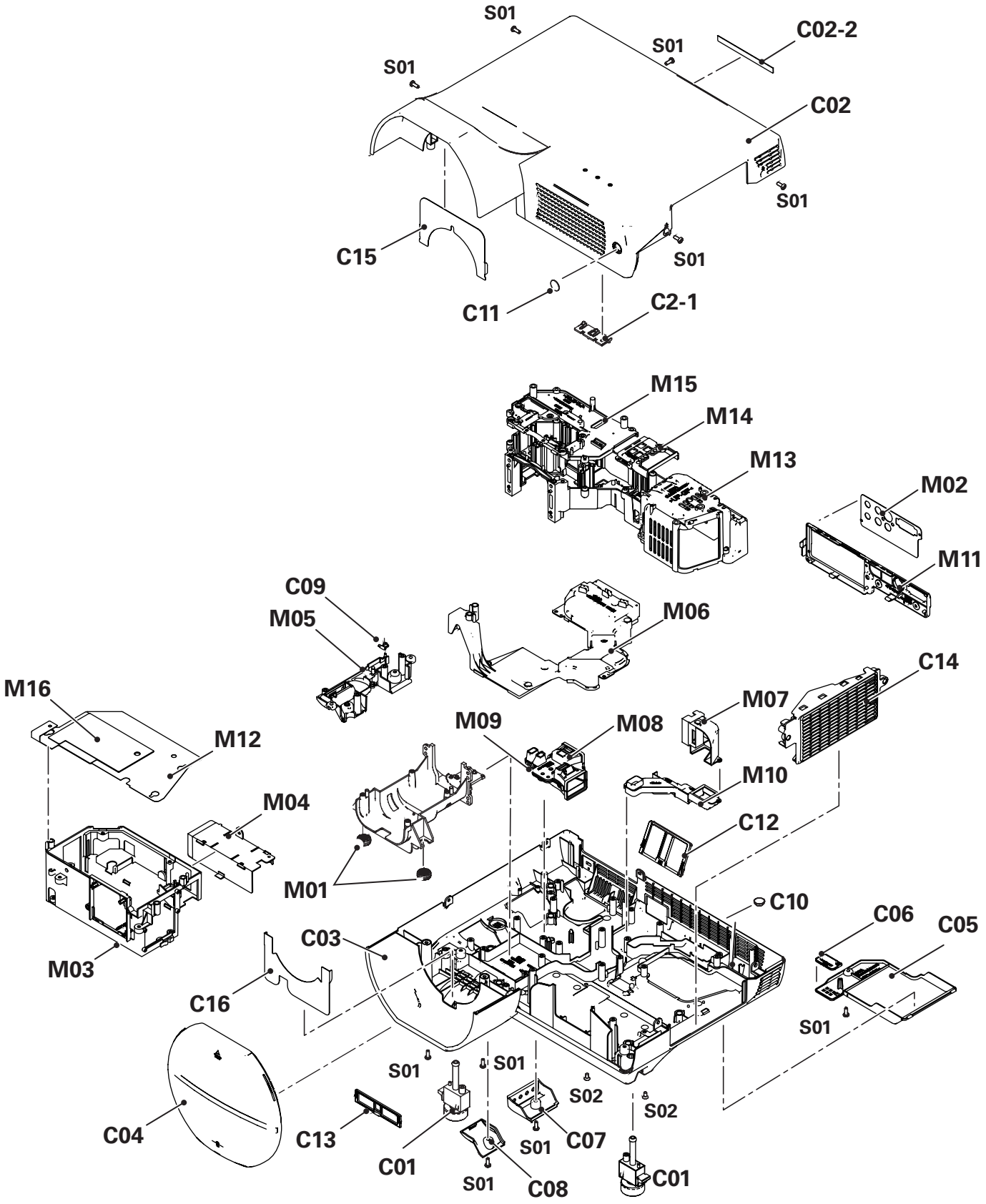
⚠UK	945 054 1149	CORD,POWER-3.138MK
⚠EU	945 054 1156	CORD,POWER-3.0MK
⚠US	645 095 0568	CORD,POWER-4.4MK,US

MISCELLANEOUS

	945 073 4855	CABLE,INTERFACE VGA
	645 093 1642	CABLE,INTERFACE VGA
	655 002 8235	BATTERY CAUTION CARD-KM5AC
	610 332 3299	STRAP COMP-LK6AC

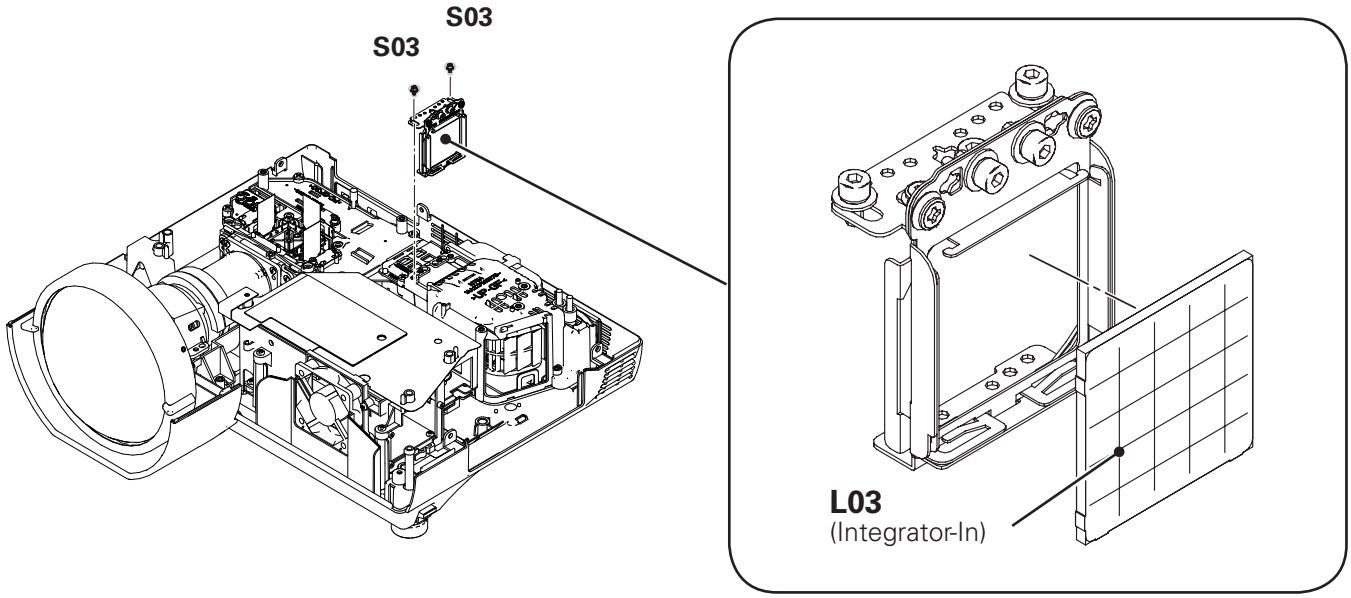
Mechanical Parts List

Cabinet Parts Location

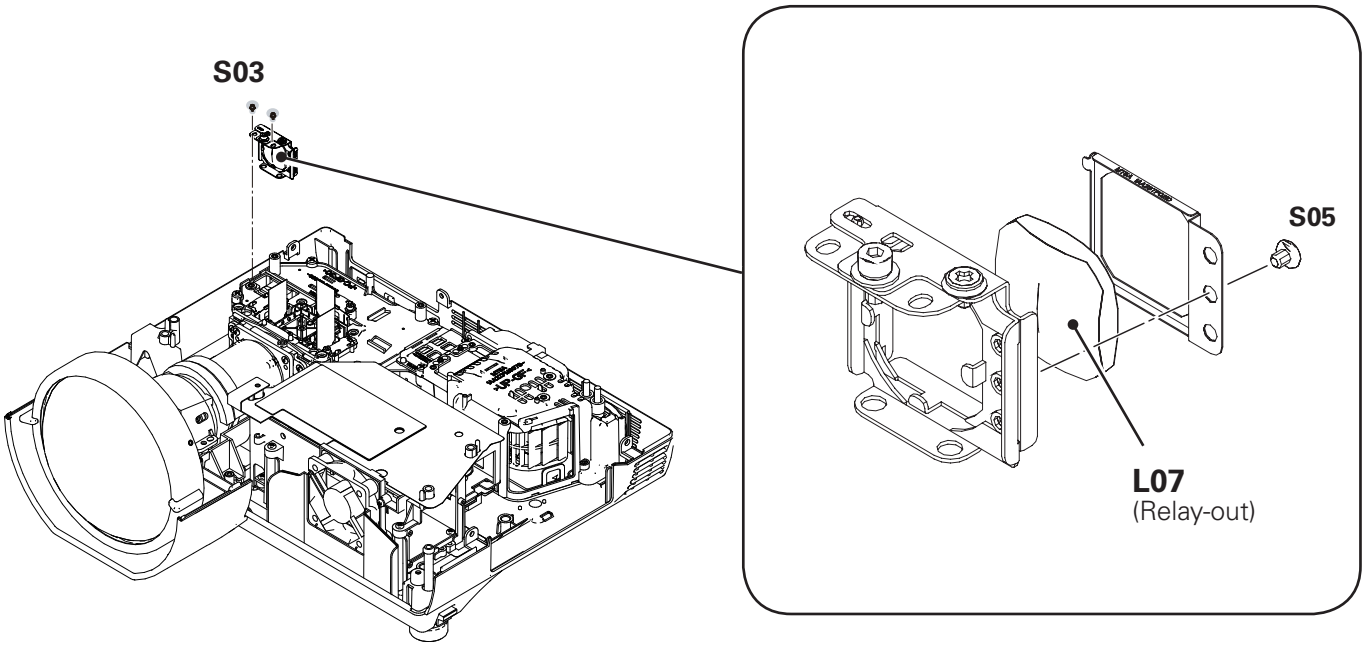


Optical Parts Location

Integrator Lens-In

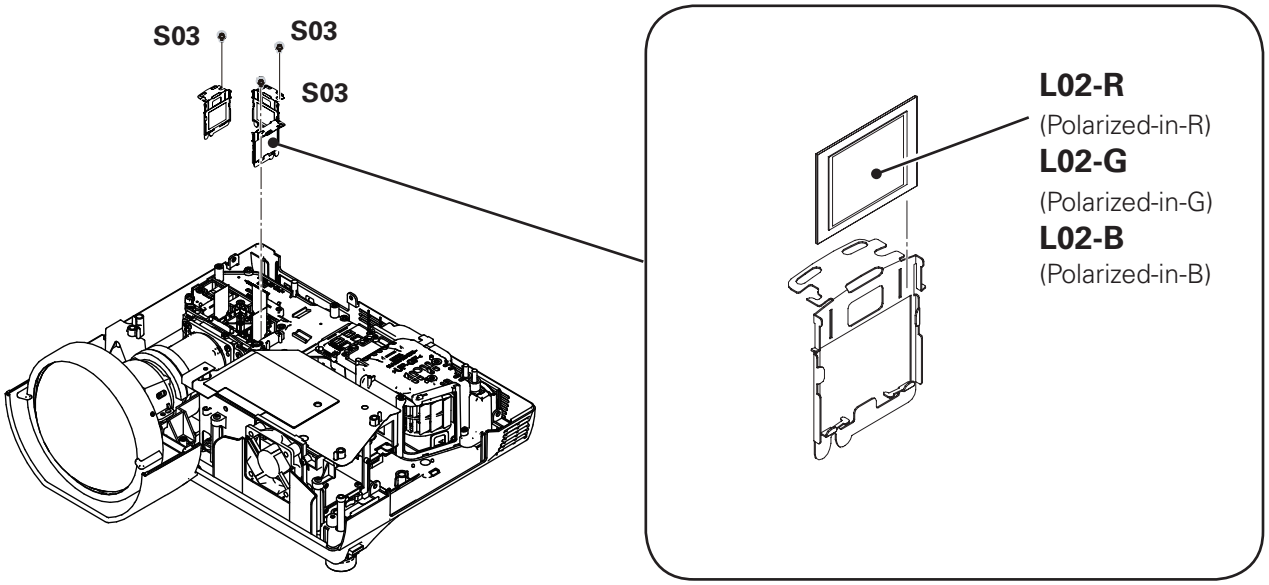


Relay Lens-Out

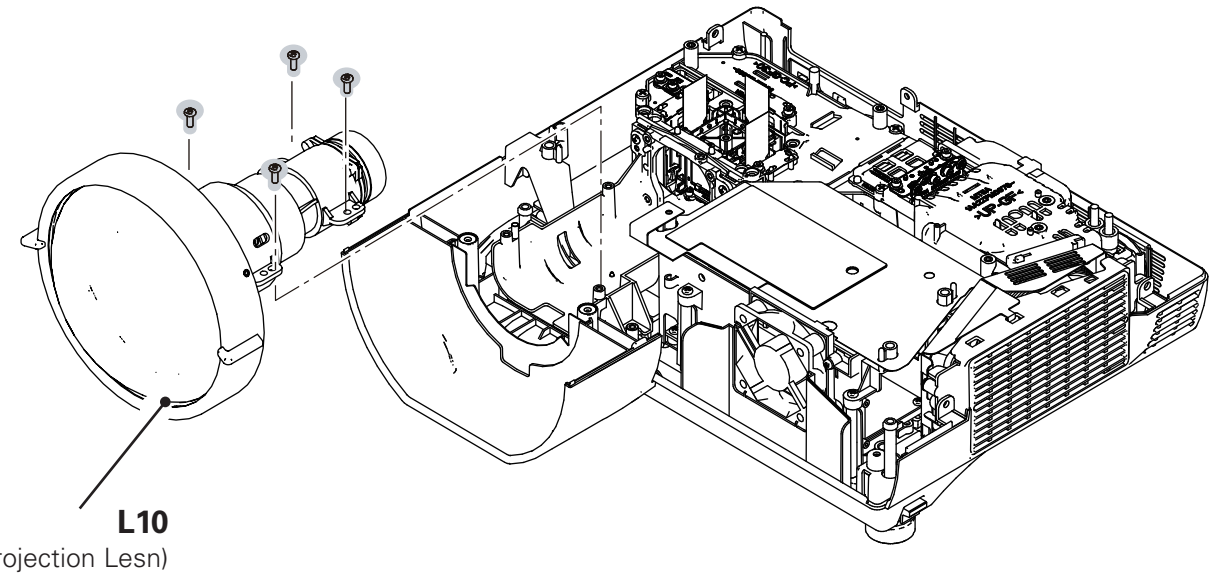


Mechanical Parts List

Polarized Glass-In

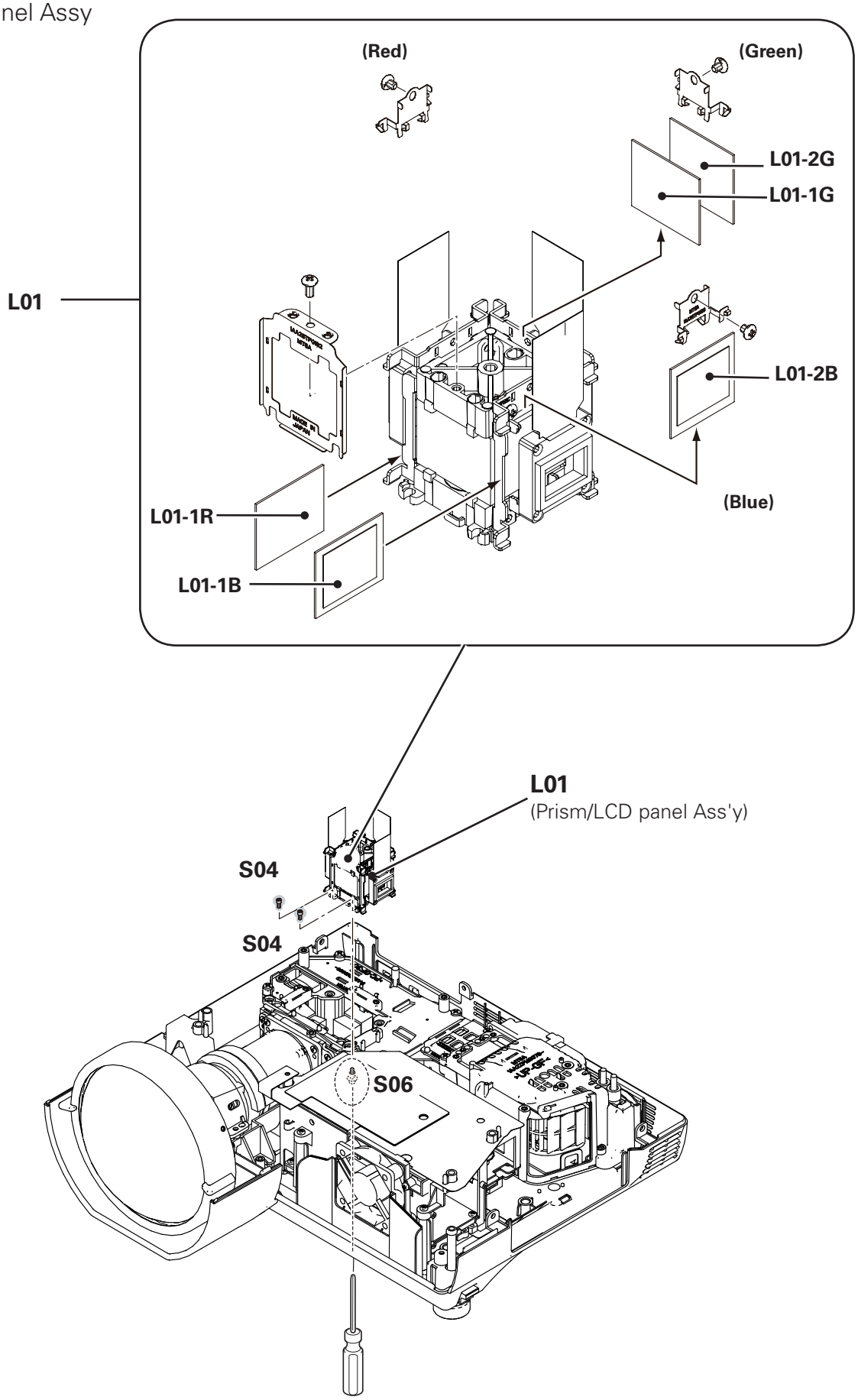


Projection Lens



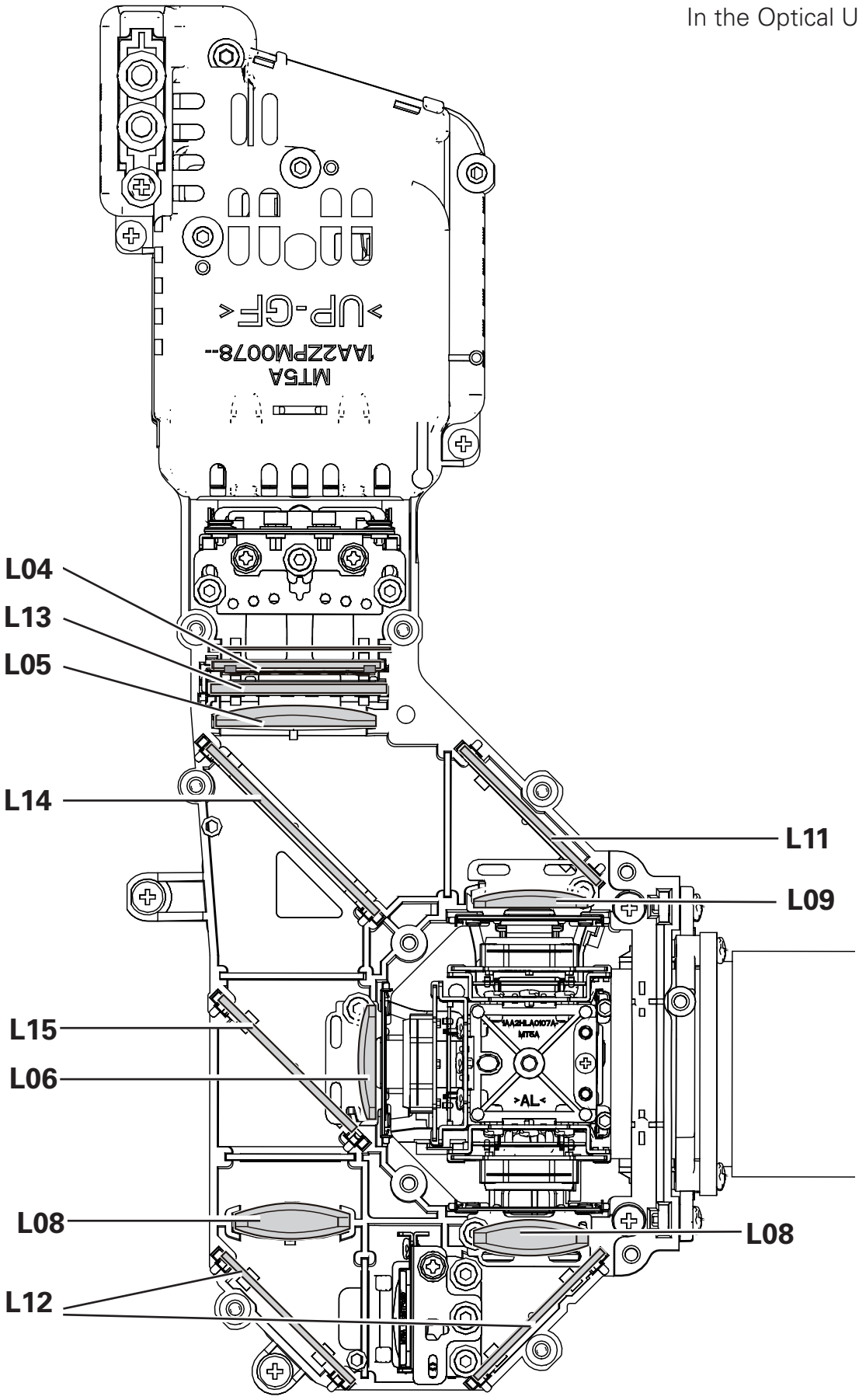
Mechanical Parts List

Prism/LCD Panel Assy



Mechanical Parts List

In the Optical Unit



Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description
FOR KM5-2000		
CABINET PARTS		
C01	910 323 1779	ASSY,STAND LEG-MT5A
	910 330 9362	ASSY,STAND-KT6AC
C02	610 343 4445	CABINET TOP SERVICE-KM5YC
	(Including Key No. C02-1 and C02-2)	
C02-1	910 325 2538	DEC INLAY LED-PT5EC
C02-2	610 342 7560	DEC AV SHEET A-KM5AC
C03	610 342 7935	CABINET BOTTOM SERVICE-KJ7ZC
C04	610 342 7720	CAP LENS-KM5AC
C05	610 332 4364	COVER, LP SERVICE-LG6AC
C06	910 325 2040	COVER, FUSE-PT5EC
C07	610 332 0274	COVER, ALARM-LK6AC
C08	610 331 1562	COVER, ALARM BATTERY-LG6AC
C09	610 331 1142	DEC INLAY LED-LG6AC
C10	910 325 2477	DEC LEG-PT5EC
C11	910 302 5613	DEC SHEET-M4JA
C12	910 325 2033	FILTER BASE B-PT5EC
C13	910 325 1982	FILTER BASE F-PT5EC
C14	610 331 1494	GRILLE -LG6AC
C15	610 342 7546	SPACER SHEET LENS TOP-KM5AC
C16	610 342 7553	SPACER SHEET LENS BTM-KM5AC
CHASSIS PARTS		
M01	610 332 4746	BUSH-KK6A
M02	910 325 2460	DEC AV SHEET-PT5EC
M03	610 331 9025	HOLDER POWER PWB B-KW6AC
M04	910 325 2675	HOLDER LN FLT-PT5EC
M05	610 331 1098	HOLDER ALARM PWB -LK6AC
M06	610 342 7584	MOUNTING DUCT TOP-KM5AC
M07	910 325 1913	MOUNTING DUCT LP-PT5EC
M08	610 342 7591	MOUNTING DUCT TOP#PNL-KM5AC
M09	610 342 7607	MOUNTING DUCT BTM#PNL-KM5AC
M10	910 330 2493	MOUNTING DUCT PBS-KT6AC
M11	610 342 7614	PANEL AV-KM5AC
M12	910 325 2576	SPACER SHEET#POWER T-PT5EC
M13	910 321 7810	OPTICAL BASE BTM-MT5A
M14	910 321 7896	OPTICAL BASE TOP A-MT5A
M15	910 321 7780	OPTICAL BASE TOP B-MT5A
M16	610 345 1114	ASSY,SPACER SHEET POW-KM5AC
SCREWS		
S01	411 189 8600	SCR BIN 3X8
S02	411 203 9507	SCR TPG FLT 3X6
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5
S04	312 069 4708	SPECIAL SCREW
S05	411 192 9601	SCR BIN 2X3
S06	312 070 3400	SPECIAL SCREW-3.0X10V
OPTICAL PARTS		
L01	610 343 2007	ASSY PNL/PSM -KM5AC
	(Including Key No.L01-1R to L01-2B and LCD Panel)	
L01-1R	645 099 2926	POLARIZED GLASS(OUT/R)
L01-1G	645 099 2933	POLARIZED GLASS(OUT/G)
L01-1B	645 099 2940	POLARIZED GLASS(OUT/B)
L01-2G	945 077 8385	PRE-POLARIZED GLASS(OUT/G)
L01-2B	945 083 6597	PRE-POLARIZED GLASS(OUT/B)
L02-G	645 099 2728	POLARIZED GLASS(IN/G)
L02-B	645 099 2735	POLARIZED GLASS(IN/B)
L02-R	645 099 2711	POLARIZED GLASS(IN/R)
L03	645 098 7199	LENS,INTEGRATOR(IN)
L04	645 099 6214	LENS,INTEGRATOR(OUT)NC
L05	945 078 0722	LENS,CONDENSER(OUT)
L06	945 078 0739	LENS,CONDENSER(G)
L07	945 078 0753	LENS,RELAY(OUT)
L08	945 078 0760	LENS,CONDENSER(R)
L09	945 087 1154	LENS,CONDENSER(B)
L10	645 098 7502	LENS,PROJECTION
L11	945 081 7640	MIRROR(B)
L12	945 081 7657	MIRROR(R)
L13	945 078 0845	PRISM(PBS)
L14	945 085 0043	DICHROIC MIRROR (B)
L15	945 078 0784	DICHROIC MIRROR (G)

Mechanical Parts List

Key No.	Part No.	Description
FOR KM5-20(S)00		
CABINET PARTS		
C01	910 323 1779	ASSY,STAND LEG-MT5A
	910 330 9362	ASSY,STAND-KT6AC
C02	610 343 3844	CABINET TOP SERVICE-KM5ZC
	(Including Key No. C02-1 and C02-2)	
C02-1	910 325 2538	DEC INLAY LED-PT5EC
C02-2	610 342 7560	DEC AV SHEET A-KM5AC
C03	610 343 3851	CABINET BOTTOM SERVICE-KM5ZC
C04	610 342 7720	CAP LENS-KM5AC
C05	610 327 6892	COVER ,LP SERVICE-PT5EC
C06	910 325 2040	COVER, FUSE-PT5EC
C07	610 332 1431	COVER, ALARM-KY6AC
C08	610 332 1370	COVER, ALARM BATTERY-KY6AC
C09	610 331 1142	DEC INLAY LED-LG6AC
C10	910 325 2477	DEC LEG-PT5EC
C11	910 302 5613	DEC SHEET-M4JA
C12	910 325 2033	FILTER BASE B-PT5EC
C13	910 325 1982	FILTER BASE F-PT5EC
C14	610 325 2322	GRILLE -PT5EC
C15	610 342 7546	SPACER SHEET LENS TOP-KM5AC
C16	610 342 7553	SPACER SHEET LENS BTM-KM5AC
CHASSIS PARTS		
M01	610 332 4746	BUSH-KK6A
M02	910 325 2460	DEC AV SHEET-PT5EC
M03	610 331 9025	HOLDER POWER PWB B-KW6AC
M04	910 325 2675	HOLDER LN FLT-PT5EC
M05	610 331 1098	HOLDER ALARM PWB -LK6AC
M06	610 342 7584	MOUNTING DUCT TOP-KM5AC
M07	910 325 1913	MOUNTING DUCT LP-PT5EC
M08	610 342 7591	MOUNTING DUCT TOP#PNL-KM5AC
M09	610 342 7607	MOUNTING DUCT BTM#PNL-KM5AC
M10	910 330 2493	MOUNTING DUCT PBS-KT6AC
M11	610 342 7614	PANEL AV-KM5AC
M12	910 325 2576	SPACER SHEET#POWER T-PT5EC
M13	910 321 7810	OPTICAL BASE BTM-MT5A
M14	910 321 7896	OPTICAL BASE TOP A-MT5A
M15	910 321 7780	OPTICAL BASE TOP B-MT5A
M16	610 345 1114	ASSY,SPACER SHEET POW-KM5AC
SCREWS		
S01	411 031 9304	SCR BIN 3X8
S02	411 203 9507	SCR TPG FLT 3X6
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5
S04	312 069 4708	SPECIAL SCREW
S05	411 192 9601	SCR BIN 2X3
S06	312 070 3400	SPECIAL SCREW-3.0X10V
OPTICAL PARTS		
L01	610 343 2007	ASSY PNL/PSM -KM5AC
	(Including Key No.L01-1R to L01-2B and LCD Panel)	
L01-1R	645 099 2926	POLARIZED GLASS(OUT/R)
L01-1G	645 099 2933	POLARIZED GLASS(OUT/G)
L01-1B	645 099 2940	POLARIZED GLASS(OUT/B)
L01-2G	945 077 8385	PRE-POLARIZED GLASS(OUT/G)
L01-2B	945 083 6597	PRE-POLARIZED GLASS(OUT/B)
L02-G	645 099 2728	POLARIZED GLASS(IN/G)
L02-B	645 099 2735	POLARIZED GLASS(IN/B)
L02-R	645 099 2711	POLARIZED GLASS(IN/R)
L03	645 098 7199	LENS,INTEGRATOR(IN)
L04	645 099 6214	LENS,INTEGRATOR(OUT)NC
L05	945 078 0722	LENS,CONDENSER(OUT)
L06	945 078 0739	LENS,CONDENSER(G)
L07	945 078 0753	LENS,RELAY(OUT)
L08	945 078 0760	LENS,CONDENSER(R)
L09	945 087 1154	LENS,CONDENSER(B)
L10	645 098 7502	LENS,PROJECTION
L11	945 081 7640	MIRROR(B)
L12	945 081 7657	MIRROR(R)
L13	945 078 0845	PRISM(PBS)
L14	945 085 0043	DICHROIC MIRROR (B)
L15	945 078 0784	DICHROIC MIRROR (G)

(KM5YC, KM5ZC) January 2009 DC 200 Printed in Japan

PROMETHEAN

Diagrams & Drawings

Schematic Diagrams
Printed Wiring Board Drawings

Model	Chassis No.
PRM-20	KM5-2000
PRM-20(S)	KM5-20(S)00

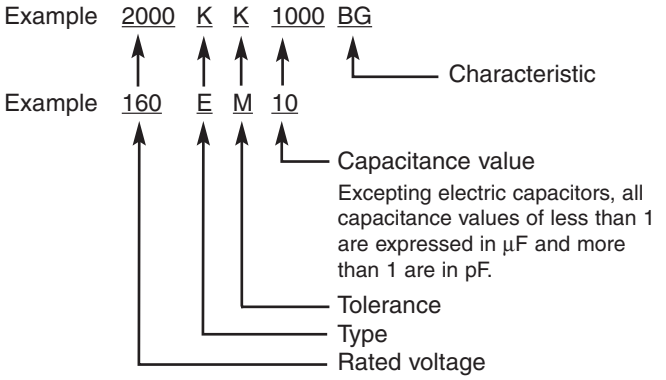
These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KM5-2000 and KM5-20(S)00, models PRM-20 and PRM-20(S).
File with the service manual No. SM5111026-00.

Note:
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are in pF.
Tolerance
Type
Rated voltage

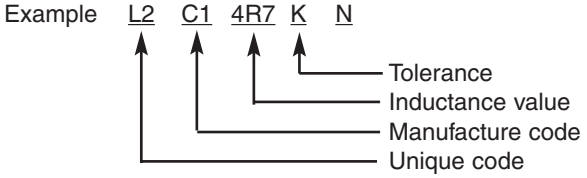
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

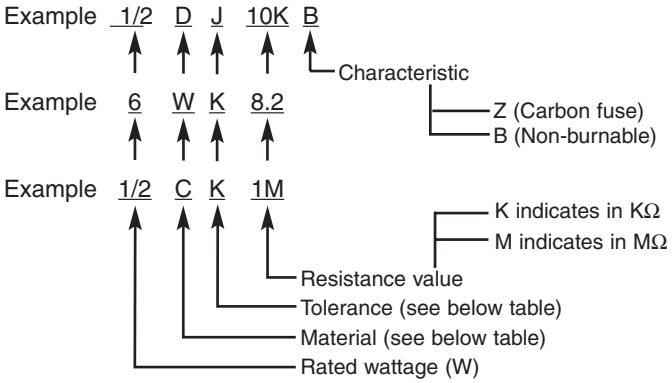
Mark	Tolerance
A	not specified
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
E	±2.5
H	±3
J	±5
K	±10
M	±20
N	±30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

Transistor

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

(2) PNP type

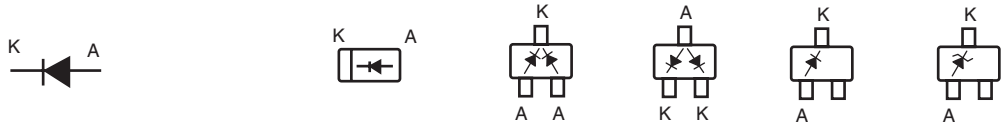
Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

Mark	Type number				
--	2SA1179/N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

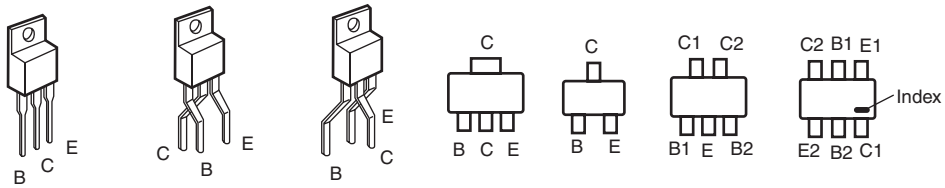
Pin description of diode, transistor and IC

● Diode



K: Cathode
A: Anode

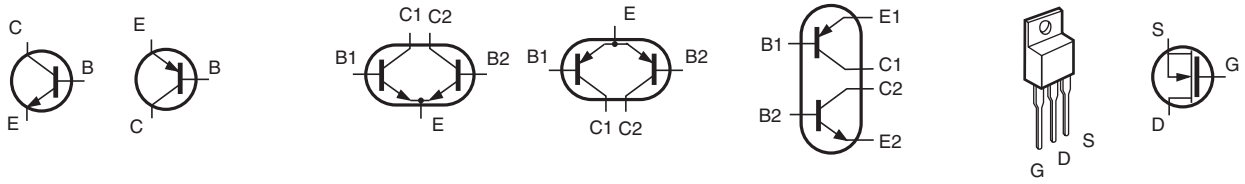
● Transistor/FET



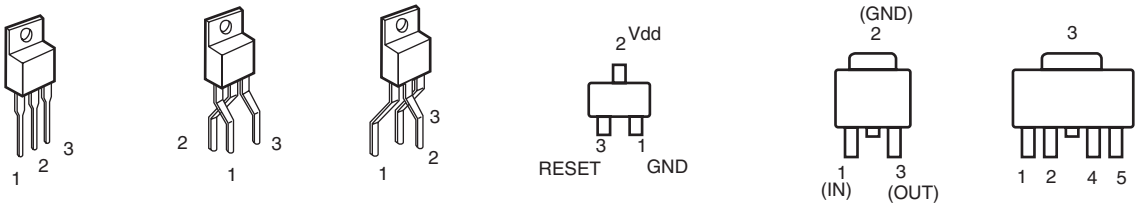
C: Collector
B: Base
E: Emitter

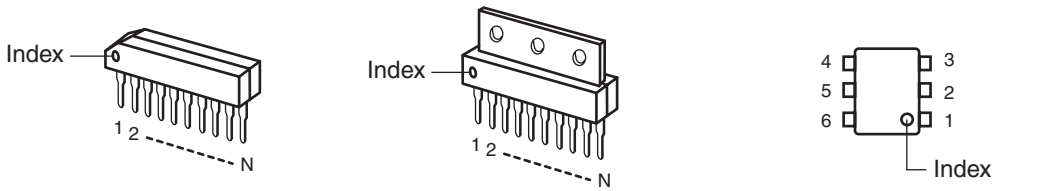
D: Drain
G: Gate
S: Source

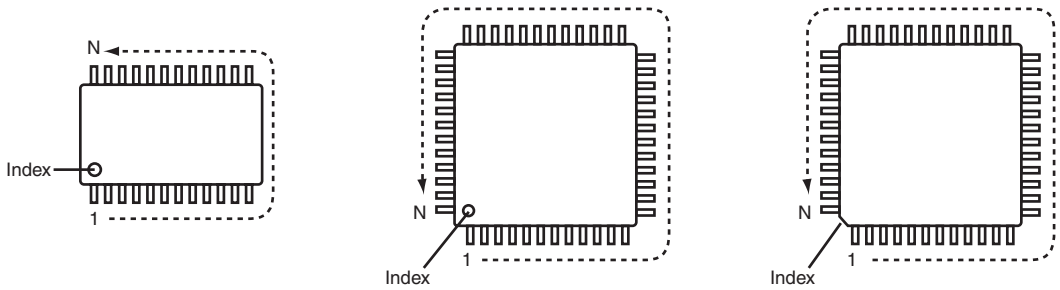
FET

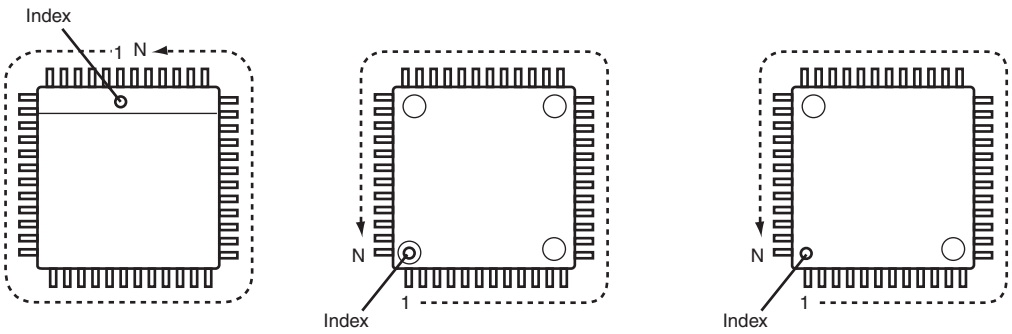


● IC









Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.

Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.

The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.

Schematic Diagrams

PROJECTION LENS
1AV4Z10B62200

CAUTION

Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CAUTION

Components indicated by a mark ⚠ in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts.Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident.
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing.
1. Do not touch the part on hot side (primary circuit) or both parts on the hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring the voltages and waveform.

AC CORD
AC100-120V
AC200-240V
LINE FILTER
POWER FACTOR CORRECTION
POWER
F.G.
TO MAIN
(TO K8S)
COLD
HOT
(SECONDARY CIRCUIT)
(PRIMARY CIRCUIT)
(LIVE CIRCUIT)
IC621 FA5502M
P.F.CONTROL
IC651 UPC1093T
IC631 STR-Z2156A
Power Supply
S15.5V
15.5V
S6V
S-5V
15.5V (MAX 2.85A)
6.0V (MAX 2.10A)
-5.0V (MAX 0.5A)
LAMP BALLAST
A901
1AV4U20B91501
380V
LP900
1AV4T30B09800
METAL HALIDE LAMP
200W
TO MICRO-SW
(TO K690)
PBS
EXHAUST SIDE LAMP
EXHAUST FRONT
EXHAUST SIDE POWER
B-PNL
G/R-PNL
ALARM-A
ALARM-B
MAIN
R LCD PANEL
G LCD PANEL
B LCD PANEL
R/C
IC8712 NJM2360AMP
IC8710 S10B7640N
IC8703 TC4S71FG
IC8701 R5F21134FP
IC8702 TC4S81F
IC8706A
IC8706B
IC8708

PC1
RGB/
YCbCr/
SCART

K10A
BJ11B0381N

PC2
RGB-IN/
RGB-OUT

IC1041
TC74LVX4053

IC1051
24LC21A/SNP

IC4001
AD8075ARUP

IC5301
TC7WH125FUK

IC5302
TC7WH125FUK

IC4701
TC7WT125FUK

IC5336
CJ27CM

IC3801
HIN202EIBNZP
RS232 Transceiver

S-VIDEO
VIDEO

VIDEO
AUDIO_IN

PC
AUDIO_IN

AUDIO_OUT

CONTROL
PORT

TO IC301 P3

FROM IC301 P3

TO IC5001 (P4)

FROM IC5001 (P4)

SCART_CV

OUT_DET

OUT_R

OUT_L

RXD_PW

TXD_PW

DEBUG_TX

DEBUG_RX

MONIT_OUT

LOW:IN
HIGH:MONITOR OUT

(FROM IC301 P3)

(TO IC301 P3)

(TO IC5001 P4)

(TO IC5031 P4)

IC301
PW190
CPU&SCALER

IC1351
TC7WBD125AFK

IC1391
IC1306
IC1801
TE7783PF
;TE7783APF
I/O EXPANDER
IC5820
MP2106DFP
IC5841
TJ3965
D-2.5V
IC5861
MP2106DFP
IC801
FLASH
RESET CIRCUIT
TE7783
RGB
RGB
LED
27MHz
<TOP VIEW>
See the parts list
See the parts list
TO IC6001 (AUDIO)
TO DDC
TO GAMMA,S/H
TO GAMMA,S/H
TO ALARM
FROM IC301
2.5V
56V
SWRST
XRESET
WAKEUP
POWER_ON_MCI
XINT
XSTDBYEN
P_FAIL_MCI
I/O_RXD0
I/O_CLK0
I/O_TX0
I/O_TXD0
I/O_AND
I/O_ALART_OUT
NET_HX
LED_ON
LED_OFF
DCLK
DHS
DVS
DBD[-9]
DGD[-9]
DRD[-9]
A[1-22]
D[0-15]
ROMWE
ROMOE
XXIR
XFD
XCS0
XRESET
WAKEUP
SDA2_5V
SCL2_5V
SDA0_3.3V
SCL0_3.3V
SCLK_PW
SDATA_PW
SCS_PW
DACL
DACR
CHO_RXD
CHO_TXD
RIC_PW
KEY1
KEY2
ADC6 (LAMP)
ADC7 (LENS)
ADC4 (BLAND)
RXD_PW
TXD_PW
P_FAIL
LAMP_ON
LENS_ON
DDC
SCART_CTL
VIDEO
SOG1
SOG2
R_AE1
R_AE2
R_AE3
R_AE4
R_AF1
R_AF2
R_AF3
R_AF4
R_U1
R_U2
R_U3
R_U4
R_V1
R_V2
R_V3
R_V4
R_P1
R_P2
R_P3
R_P4
R_R1
R_R2
R_R3
R_R4
R_AE7
R_AE8
R_AE9
R_AE10
R_AE11
R_AE12
R_AE13
R_AE14
R_AE15
R_AE16
R_AE17
R_AE18
R_AE19
R_AE20
R_AE21
R_AE22
R_AE23
R_AE24
R_AE25
R_AE26
R_AE27
R_AE28
R_AE29
R_AE30
R_AE31
R_AE32
R_AE33
R_AE34
R_AE35
R_AE36
R_AE37
R_AE38
R_AE39
R_AE40
R_AE41
R_AE42
R_AE43
R_AE44
R_AE45
R_AE46

KEY SW

ALARM-A

R/C

LAMP BALLAST

LAMP COVER_ SW

POWER

FAN

G/R-PNL	B-PNL	EXHAUST SIDE LAMP	EXHAUST FRONT	EXHAUST SIDE POWER	PBS
FN904	FN903	FN901 60X25mm	FN906 52X15mm	FN902 60X15mm	FN905

TEMP SENSOR 3 (LAMP)

TEMP SENSOR 2 (PANEL)

TEMP SENSOR 1 (OUTSIDE)

IC8811 LM76CHMX

IC8821 LM76CHMX

IC8831 LM76CHMX

IC9882 INVERTER

IC4891 TC7SET00FUP

IC5001 NJM1156AVM

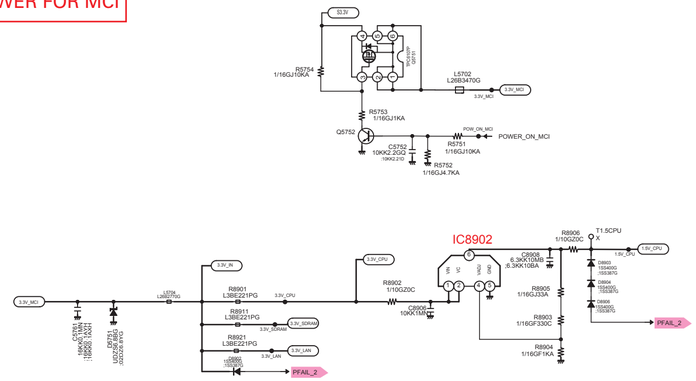
IC5081 PQ1M505M2SPP

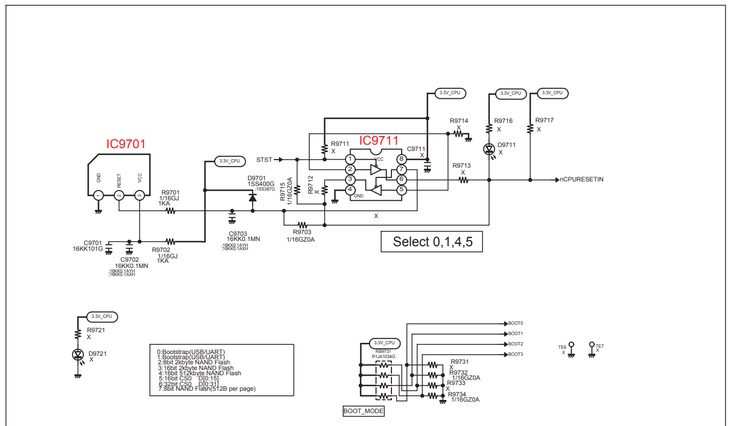
IC5031 LM4889MMP

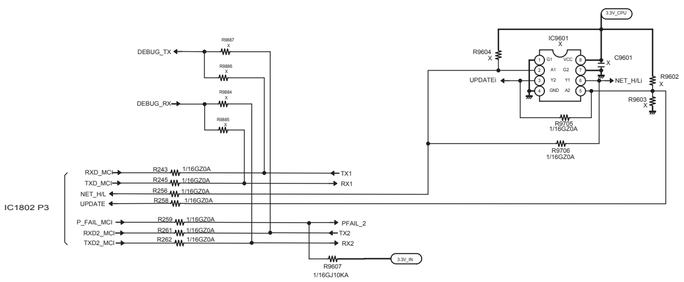
IC5601

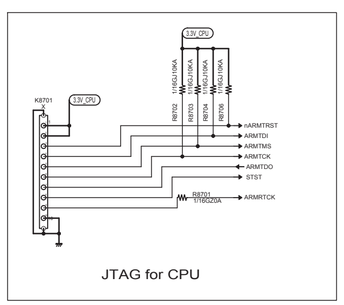
SP

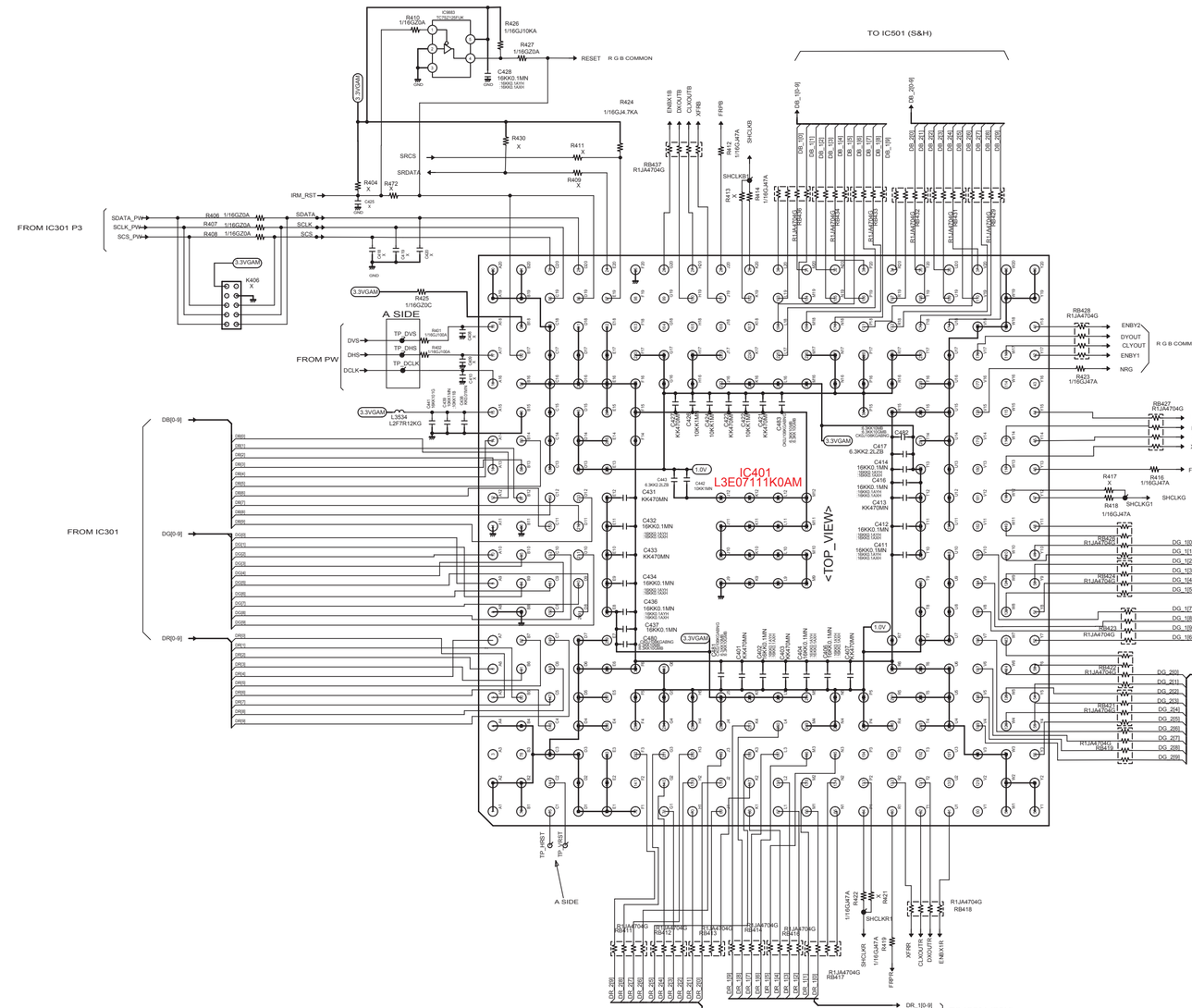
POWER FOR MCI

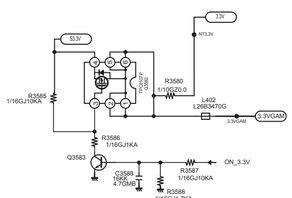


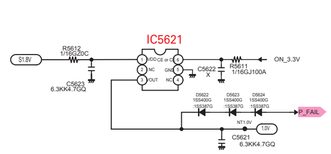












IC401 LCD DRIVER GAMMA CORRECTION

IC301 SCAN CONVERTER SYSTEM CONTROL

IC401 LCD DRIVER GAMMA CORRECTION

FROM IC401 (7111)

FROM IC301 (PW)

FROM IC401 (7111)

IC2561 L3E01060P0BM

R-LEVEL SHIFT

TO K35R (PANEL)

FROM IC401 (7111)

FROM IC301 (PW)

FROM IC401 (7110)

IC2531 L3E01060P0BM

G-LEVEL SHIFT

TO K35G (PANEL)

FROM IC401 (7110)

FROM IC301 (PW)

FROM IC401 (7110)

IC2501 L3E01060P0BM

B-LEVEL SHIFT

TO K35B (PANEL)

FROM IC401

IC561 L3E06150S2AM

R-D/A S&H

TO K35R

FROM IC401

IC531 L3E06150S2AM

G-D/A S&H

TO K35G

FROM IC401

IC501 L3E06150S2AM

B-D/A S&H

TO K35B

R-PANEL

G-PANEL

B-PANEL

K35R J11EA361G

K35G J11EB363G

K35B J11EA361G

IC8501

Async_MEM

IC8801

LAN_n(LAN9118)

IC8851

Sync Mem.

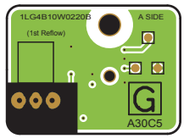
IC8301

MX21(CPU)

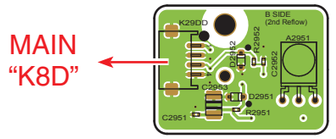
NO DATA

Printed Wiring Board Diagrams

R/C (SIDE:A)

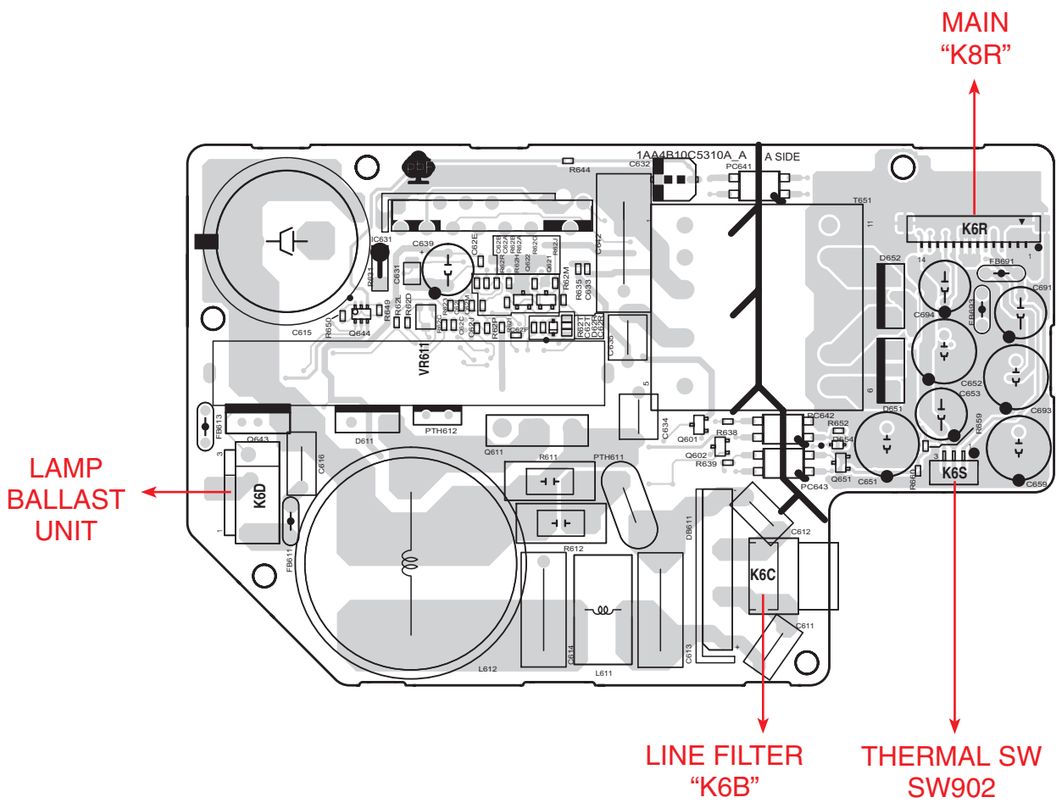


R/C (SIDE:B)

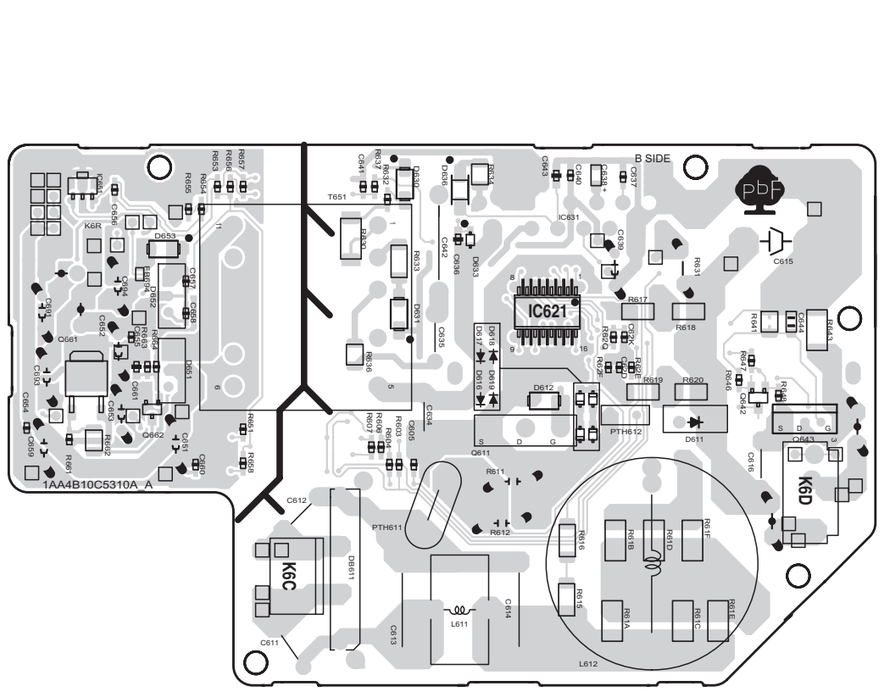


> **⚠ CAUTION**
>
> This projector is isolated from AC line by using the internal converter transformer.
> Please pay attention to the following notes in servicing
> 1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
> 2. Do not shorten the circuit between hot and cold sides.
> 3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

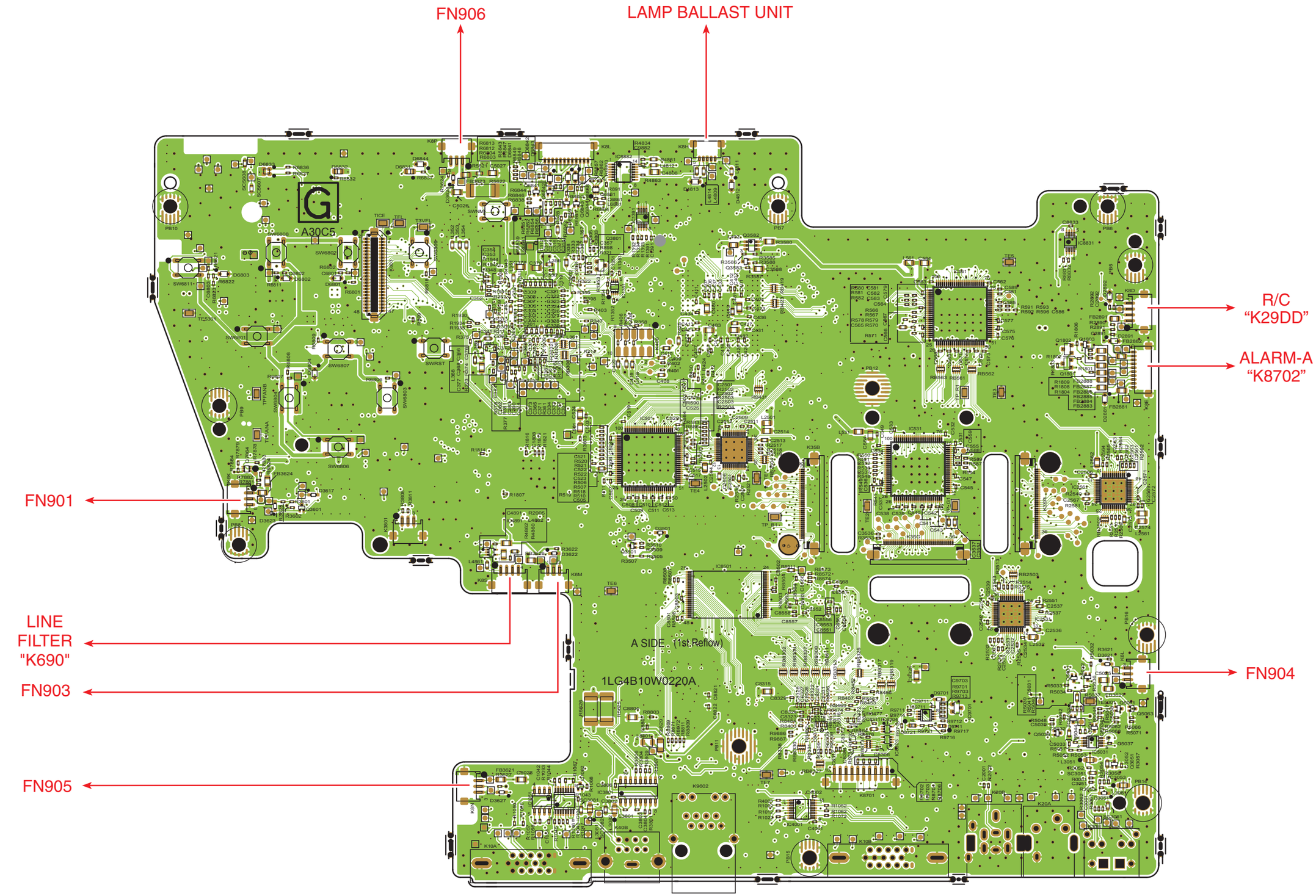
POWER (SIDE:A)



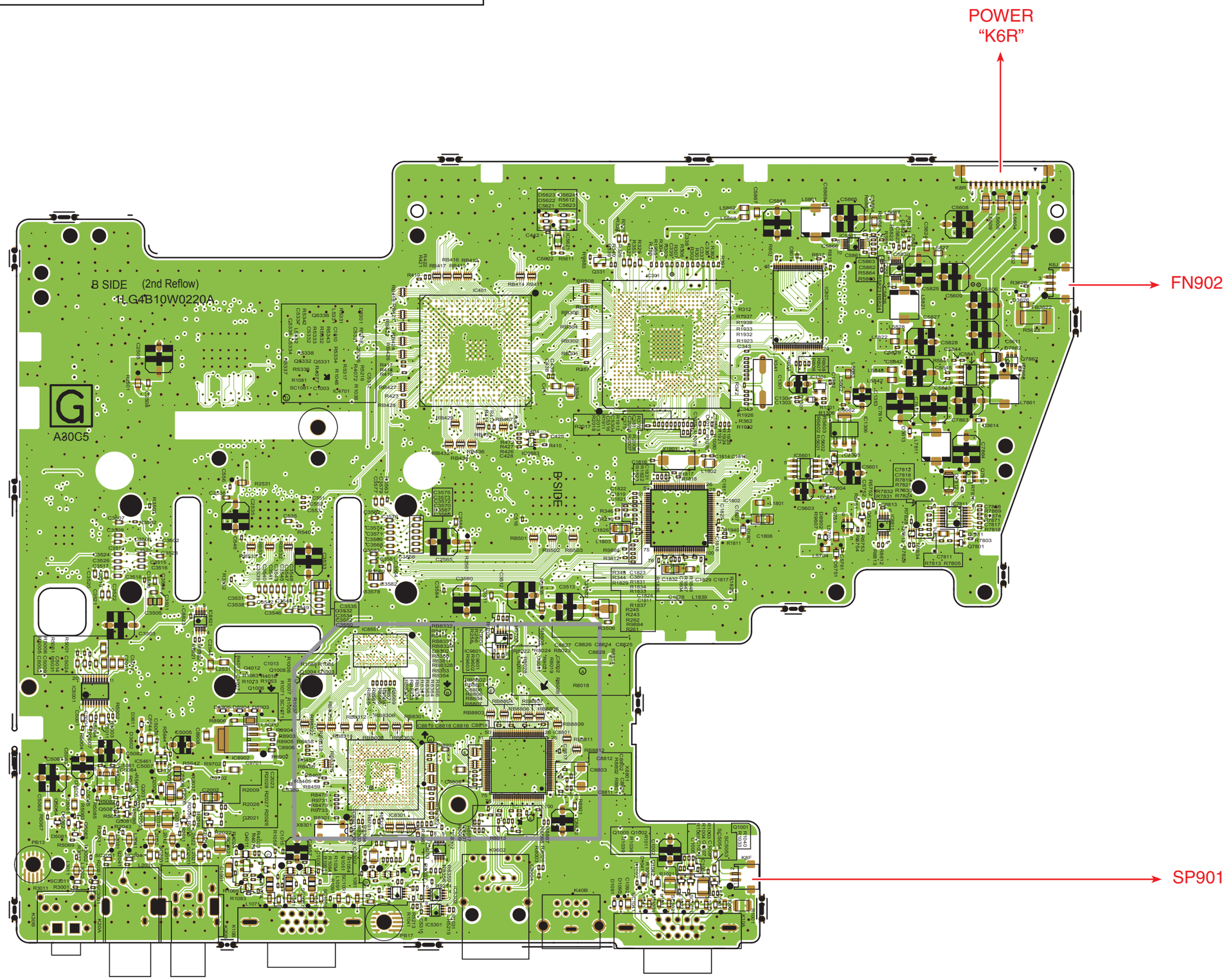
POWER (SIDE:B)



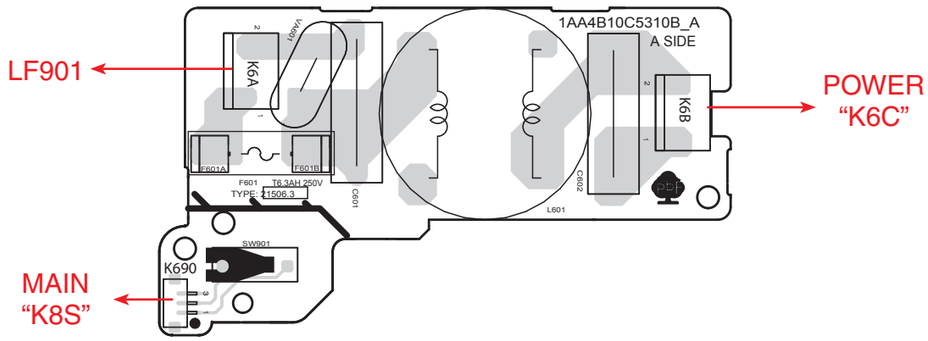
MAIN (SIDE:A)


FN906
LAMP BALLAST UNIT
R/C
"K29DD"
ALARM-A
"K8702"
FN901
LINE
FILTER
"K690"
FN903
FN905
FN904
A30C5
A SIDE , (1st.Reflow)
1LG4B10W0220A

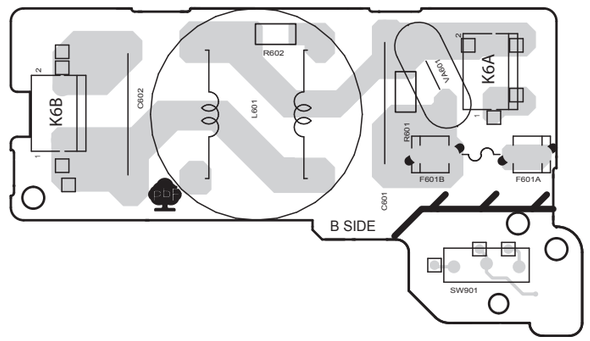
MAIN (SIDE:B)


POWER
"K6R"
FN902
SP901
B SIDE (2nd Reflow)
1LG4B10W0220A
A30C5
B-SIDE

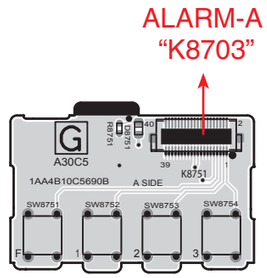
LINE FILTER (SIDE:A)



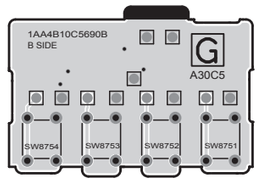
LINE FILTER (SIDE:B)



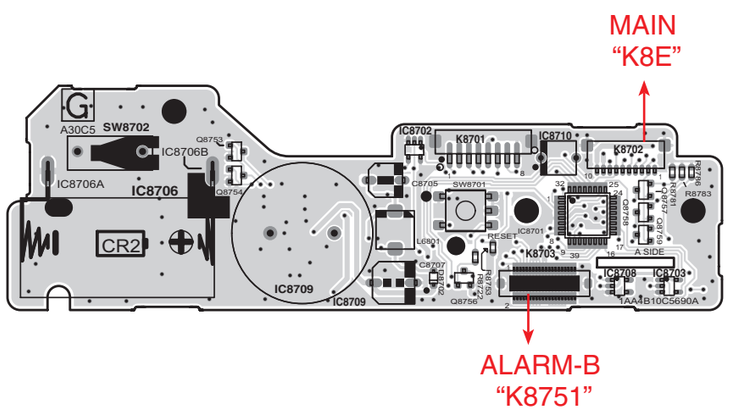
ALARM-B (SIDE:A)



ALARM-B (SIDE:B)



ALARM-A (SIDE:A)



ALARM-A (SIDE:B)